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the first year, also, at Ithaca, N. Y.

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CALENDAR

1937

- Sept. 20. Monday—Examinations begin for admission to the first year of all departments of Cornell University at Ithaca, N. Y. Examinations are held at the Medical College, New York City, for the convenience of residents.
- Sept. 22. Wednesday—Examinations begin for conditioned students.
- Sept. 27. Monday—Registration Day.*
- Sept. 28. Tuesday—Classes begin. First quarter and first trimester begin.**
- Nov. 2. Tuesday—Election day. Holiday.
- Nov. 24. Wednesday—First quarter ends. Thanksgiving recess begins, 5 P. M.
- Nov. 29. Monday—Second quarter begins. Thanksgiving recess ends, 9 A. M.
- Dec. 23. Thursday—First trimester ends. Christmas recess begins, 5 P. M.

1938

- Jan. 3. Monday—Second trimester begins. Christmas recess ends, 9 A. M.
- Feb. 5. Saturday—Second quarter ends. 1 P. M.
- Feb. 7. Monday—Third quarter begins, 9 A. M.
- Feb. 22. Tuesday—Washington's birthday. Holiday.
- Mar. 19. Saturday—Second trimester ends. Spring recess begins, 1 P. M.
- Mar. 28. Monday—Third trimester begins. Spring recess ends, 9 A. M.
- Apr. 9. Saturday—Third quarter ends, 1 P. M.
- Apr. 11. Monday—Fourth quarter begins, 9 A. M.
- May 30. Monday—Memorial Day. Holiday.
- June 4. Saturday—Fourth quarter and third trimester end, 1 P. M.
- June 6-June 9, inc. Monday-Thursday—Final examinations.
- June 15. Wednesday—Commencement, 4 P. M.

*All students must register in person at the Administrative Offices on or before September 27. No student will be admitted after Registration Day without special permission of the Dean. Upon registration, all fees must be paid at the Business Office.

**The first, second and third years of the medical course are divided into trimesters, the fourth into quarters.

BOARD OF TRUSTEES

The President of the University	} <i>Ex-Officio</i>	Ithaca
The Governor of New York State		Albany
The Lieutenant-Governor of New York State		Albany
The Speaker of the Assembly		Albany
The State Commissioner of Education		Albany
The State Commissioner of Agriculture		Albany
The President of the State Agricultural Society		Albany
The Librarian of the Cornell Library		Ithaca
CHARLES EZRA CORNELL		Ithaca
*FRANK E. GANNETT (B)		Rochester
*FRANKLIN W. OLIN (B)		Alton, Ill.
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_____ (A)		New York
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*MYRON C. TAYLOR (G)		New York
JERVIS LANGDON (B)		Elmira
HARPER SIBLEY (B)		Rochester
WALTER C. TEAGLE (B)		New York
CHARLES H. BLAIR (A)		New York
JAMES W. PARKER (A)		Detroit, Mich.
GEORGE R. VAN NAMEE (G)		New York
AUGUST HECKSCHER (B)		New York
HENRY R. ICKELHEIMER (B)		New York
MAXWELL M. UPSON (B)		New York
GEORGE R. PFANN (A)		New York
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HORACE WHITE (G)		Syracuse
FRANK H. HISCOCK (B)		Syracuse
NICHOLAS H. NOYES (B)		Indianapolis, Ind.
J. DUPRATT WHITE (B)		New York
MAURICE C. BURRITT (A)		Hilton
ROBERT E. TREMAN (A)		Ithaca
STANTON GRIFFIS (G)		New York
NEAL D. BECKER (B)		Brooklyn
BANCROFT GHERARDI (B)		New York
ROGER H. WILLIAMS (B)		New York
MARY H. DONLON (A)		New York
ALFRED H. HUTCHINSON (A)		Chicago, Ill.
EDWARD R. EASTMAN (G)		Ithaca
HOWARD E. BABCOCK (Gr)		Ithaca

FACULTY REPRESENTATIVES

HERBERT H. WHETZEL (January 1, 1939)	Ithaca
ROBERT S. STEVENS (January 1, 1940)	Ithaca
DONALD ENGLISH (January 1, 1941)	Ithaca

*Term of office expires in 1938, the next group of six in 1939, etc. B, elected by the Board; A, elected by the Alumni; G, appointed by the Governor; Gr., elected annually by the State Grange.

THE NEW YORK HOSPITAL-CORNELL MEDICAL COLLEGE ASSOCIATION

The Association was formed by an agreement between the Society of the New York Hospital and Cornell University in order to associate organically the hospital and the medical college and to effect a complete coordination of the medical, educational, and scientific activities of the two institutions.

The Association is operated under the supervision of a Joint Administrative Board, composed of three Governors of the Society of the New York Hospital, three representatives of the Trustees of Cornell University and one other member elected by the appointed members.

The Joint Administrative Board is composed of the following members:

HENRY G. BARBEY, <i>Chairman</i>	LIVINGSTON FARRAND
FRANK L. POLK	J. DUPRATT WHITE
WILLIAM WOODWARD	WALTER L. NILES
J. PIERPONT MORGAN	

The Society of the New York Hospital is associated with the Cornell University Medical College, which is one of the colleges of Cornell University, under the title of "The New York Hospital-Cornell Medical College Association".

Gifts or bequests should be made either to the Hospital or to the University, but not to the above-named Association.

If for the Hospital, the language may be: "I give and bequeath to the Society of the New York Hospital the sum of \$———".

If for the use of the College, the language may be: "I give and bequeath to Cornell University the sum of \$. for use in connection with its Medical College". If it is desired that a gift shall be used in whole or in part for any specific purpose in connection with the College, such use may be specified.

MEDICAL COLLEGE COUNCIL

The Council was established by action of the Trustees of Cornell University for the purpose of making recommendations to the Board of Trustees or the Executive Committee in relation to the business management of the Medical College. It is composed of the President of the University, the Provost of the University, the Dean of the Medical College, four members of the Board of Trustees elected by the Trustees, and two members of the Medical Faculty elected by the Faculty.

The Council at present consists of the following members:

EDMUND EZRA DAY, President of Cornell University, *Chairman*,
ex-Officio

WILLIAM S. LADD, Dean, Cornell University Medical College.

NEAL D. BECKER

HENRY R. ICKELHEIMER

MYRON C. TAYLOR

ROGER H. WILLIAMS

EUGENE L. OPIE

HENRICUS J. STANDER

EDWARD K. TAYLOR, *Secretary*.

} of the Board of Trustees.

} of the Faculty.

OFFICERS OF ADMINISTRATION

EDMUND EZRA DAY, *President.*

WILLIAM S. LADD, *Dean.*

DAYTON J. EDWARDS, *Assistant Dean.*

J. S. FERGUSON, *Secretary of the Faculty.*

DOROTHY GILL, *Recorder.*

EDWARD K. TAYLOR, *Secretary of Council and Business Manager.*

JOSEPHINE G. NICHOLS, *Librarian.*

EXECUTIVE FACULTY

EDMUND EZRA DAY

OSKAR DIETHELM
EUGENE F. DU BOIS
WILLIAM J. ELSER
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JOSEPH C. HINSEY
WILLIAM S. LADD

SAMUEL Z. LEVINE
JAMES M. NEILL
EUGENE L. OPIE
WILSON G. SMILLIE
HENRICUS J. STANDER
CHARLES R. STOCKARD

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COMMITTEE ON CURRICULUM

GEORGE J. HEUER, *Chairman*

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HENRICUS J. STANDER

CHARLES R. STOCKARD

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MRS. JOSEPHINE G. NICHOLS

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WILLIAM S. LADD, *Chairman*

Heads of Departments, or their representatives, responsible for the more important courses of each year.

COMMITTEE ON SCHOLARSHIPS AND PRIZES

SAMUEL Z. LEVINE, *Chairman*

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JOHN C. TORREY

COMMITTEE ON POLK PRIZES IN RESEARCH

McKEEN CATTELL, *Chairman*

WILLIAM DEW. ANDRUS

N. CHANDLER FOOT

JOSE F. NONIDEZ

*The Dean is ex-officio a member of all Committees.

THE FACULTY AND TEACHING STAFF

THE FACULTY

EDMUND EZRA DAY, Ph.D., LL.D., President of Cornell University.

S.B. 1905, A.M. 1906, Dartmouth; Ph.D. 1909, Harvard; LL.D. 1931, Vermont.

LIVINGSTON FARRAND, M.D., President Emeritus.

A.B. 1888, A.M. 1891, Princeton; M.D. 1891, Columbia; Ph.D. hon. 1924, Rensselaer; L.H.D. 1922, Hobart; LL.D. 1914 Colorado College and Denver, 1917 Michigan, 1919 Colorado, 1922 Union, Princeton and Colgate, 1923 Yale, 1925 Pennsylvania and Dartmouth, 1927 Toronto, 1929 Columbia, 1934 Syracuse.

WILLIAM S. LADD, M.D., Dean.

B.S. 1910, Amherst; M.D. 1915, Columbia.

PROFESSORS EMERITI

J. CLIFTON EDGAR, M.D.	Professor of Obstetrics.
GEORGE WOOLSEY, M.D.	Professor of Clinical Surgery.
IRVING S. HAYNES, M.D.	Professor of Clinical Surgery.
JOHN ROGERS, A.B., M.D.	Professor of Clinical Surgery.
FREDERICK WHITING, M.D.	Professor of Clinical Surgery, (Otology).
CHARLES L. GIBSON, M.D.	Professor of Surgery.
WILLIAM L. RUSSELL, M.D.	Professor of Psychiatry.
GEORGE GRAY WARD, M.D.	Professor of Obstetrics and Gynecology.
ROBERT A. HATCHER, M.D.	Professor of Pharmacology.
EDWARD L. KEYES, M.D.	Professor of Clinical Surgery, (Urology).

PROFESSORS

JAMES EWING, M.D., Professor of Oncology.

Director of Cancer Research, Memorial Hospital.

Consulting Pathologist, New York Hospital.

A.B. 1888, A.M. 1891, Sc.D. 1923, Amherst; M.D. 1891, Columbia; Sc.D. 1911, Pittsburgh.

CHARLES R. STOCKARD, Ph.D., M.D., Professor of Anatomy.

Director, Experimental Morphology Station.

B.S. 1899, M.S. 1901, Mississippi Agr. and Mech. College; Ph.D. 1906, Columbia; Sc.D. 1920, Cincinnati; M.D. 1922, Wurzburg.

- WILLIAM J. ELSEY, M.D., Professor of Applied Pathology and Bacteriology.
Director, Central Laboratories, New York Hospital.
M.D. 1895, Bellevue Hospital Medical College.
- EUGENE F. DU BOIS, M.D., Professor of Medicine.
Physician-in-Chief, New York Hospital.
Consulting Physician, Bellevue Hospital.
A.B. 1903, Harvard; M.D. 1906, Columbia.
- JOHN C. TORREY, Ph.D., Professor of Epidemiology.
A.B. 1898, Sc.D. 1922, Vermont; Ph.D. 1902, Columbia.
- HENRICUS J. STANDER, M.D., Professor of Obstetrics and Gynecology.
Obstetrician and Gynecologist-in-Chief, New York Hospital.
Chief Obstetrician, Berwind Maternity Clinic.
M.S. 1916, Arizona; M.D. 1921, Yale.
- GEORGE J. HEUER, M.D., Professor of Surgery.
Surgeon-in-Chief, New York Hospital.
B.S. 1903, Wisconsin; M.D. 1907, Johns Hopkins.
- EUGENE L. OPIE, M.D., Professor of Pathology.
Pathologist, New York Hospital.
A.B. 1893, M.D. 1897, Johns Hopkins; Sc.D. 1931, Yale.
- JAMES M. NEILL, Ph.D., Professor of Bacteriology and Immunology.
B.S. 1917, Allegheny; Ph.D. 1921, Massachusetts Agricultural College.
- SAMUEL Z. LEVINE, M.D., Professor of Pediatrics.
Pediatrician-in-Chief, New York Hospital.
A.B. 1916, College of the City of New York; M.D. 1920, Cornell.
- LEWIS A. CONNER, M.D., Professor of Clinical Medicine.
Consulting Physician, New York, Bellevue, and Memorial Hospitals.
Ph.B. 1887, Yale; M.D. 1890, Columbia.
- JOHN A. HARTWELL, M.D., Professor of Clinical Surgery.
Consulting Surgeon, New York, Bellevue, and Memorial Hospitals.
Ph.B. 1889, M.D. 1892, Yale.
- OSCAR M. SCHLOSS, M.D., Professor of Clinical Pediatrics.
Attending Pediatrician, New York Hospital.
B.S. 1901, Alabama Polytechnic Institute; M.D. 1905, Johns Hopkins.
- WALTER L. NILES, M.D., Professor of Clinical Medicine.
Attending Physician, New York Hospital; Consulting Physician, Bellevue and Memorial Hospitals.
M.D. 1902, Cornell.
- HANS J. SCHWARTZ, M.D., Professor of Clinical Medicine (Dermatology).
Attending Physician, Dermatology, New York Hospital; Consulting Physician, Memorial Hospital.
M.D. 1898, McGill.

- HARRY M. IMBODEN, M.D., Professor of Clinical Radiology.
Consulting Radiologist, New York and Memorial Hospitals.
A.B. 1899, Lebanon Valley; M.D. 1903, Jefferson.
- MALCOLM GOODRIDGE, M.D., Professor of Clinical Medicine.
Attending Physician, New York Hospital; Consulting Physician,
Bellevue Hospital.
A.B. 1894, Princeton; M.D. 1898, Columbia.
- POL N. CORYLLOS, M.D., Professor of Clinical Surgery.
A.B., M.D. 1901, Athens; B.S., M.S., M.D. 1914, Paris.
- FOSTER KENNEDY, M.D., Professor of Clinical Neurology.
Attending Physician, New York Hospital; Visiting Physician
in charge of Neurological Service, Bellevue Hospital; Consulting
Neurologist, Memorial Hospital.
M.B., B.Ch. 1906, Royal University, Ireland; M.D. 1910, Dublin.
- JOSHUA E. SWEET, M.D., Professor of Experimental Surgery.
A.B. 1897, A.M. 1900, Sc.D. 1922, Hamilton; M.D. 1901, Giessen.
- BERNARD SAMUELS, M.D., Professor of Clinical Surgery (Ophthalmol-
ogy).
Attending Surgeon, Ophthalmology, New York Hospital.
M.D. 1907, Jefferson.
- CHARLES E. FARR, M.D., Professor of Clinical Surgery.
Attending Surgeon, New York Hospital.
A.B. 1898, M.D. 1903, Yale.
- EUGENE H. POOL, M.D., Professor of Clinical Surgery.
Senior Attending Surgeon, New York Hospital.
A.B. 1895, Harvard; M.D. 1899, Columbia.
- HENRY H. M. LYLE, M.D., Professor of Clinical Surgery.
Attending Surgeon, St. Luke's Hospital.
M.D. 1900, Columbia.
- WILLIAM R. WILLIAMS, M.D., Professor of Clinical Medicine.
Consulting Physician, New York Hospital.
A.B. 1889, A.M. 1892, Williams; M.D. 1895, Columbia.
- JOSEPH C. ROPER, M.D., Professor of Clinical Medicine.
Consulting Physician, New York Hospital.
M.D. 1897, New York University Medical College; M.D. 1899, Cornell.
- NATHAN CHANDLER FOOT, M.D., Professor of Surgical Pathology.
Surgical Pathologist, New York Hospital.
A.B. 1903, Harvard; M.D. 1907, Columbia.
- RUSSELL L. CECIL, M.D., Professor of Clinical Medicine.
Associate Attending Physician, New York Hospital.
A.B. 1902, Princeton; M.D. 1906, Medical College of Virginia.
- PHYLLIS GREENACRE, M.D., Professor of Clinical Psychiatry.
Attending Psychiatrist, New York Hospital.
B.S. 1913, University of Chicago; M.D. 1916, Rush.

OSKAR DIETHELM, M.D., Professor of Psychiatry.
Psychiatrist-in-Chief, New York Hospital.

Staatsexamen 1922, University of Zurich Medical School.

WILLIAM S. LADD, M.D., Dean; Professor of Clinical Medicine.
Attending Physician, New York Hospital.

B.S. 1910, Amherst; M.D. 1915, Columbia.

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B.S. 1922, M.S. 1923, Northwestern; Ph.D. 1927, Washington University.

CLARENCE O. CHENEY, M.D., Professor of Clinical Psychiatry.
Consulting Psychiatrist, New York Hospital.

A.B. 1908, M.D. 1911, Columbia.

JOSE F. NONIDEZ, Sc.D., Professor of Anatomy.

M.S. 1913, Sc.D., 1914, Madrid.

WILSON G. SMILLIE, M.D., Professor of Public Health and Preventive Medicine.

A.B. 1908, Colorado College, M.D. 1912, D.P.H. 1916, Harvard.

ALEXANDER R. STEVENS, M.D., Professor of Clinical Surgery (Urology).
Attending Surgeon, Urology, New York Hospital; Visiting Surgeon in charge of Urological Service, Bellevue Hospital.

A.B. 1896, M.D. 1903, Johns Hopkins.

ASSOCIATE PROFESSORS

DAYTON J. EDWARDS, Ph.D., Assistant Dean; Associate Professor of Physiology.

B.S. 1906, Maine; Ph.D. 1913, Columbia.

CHARLES V. MORRILL, Ph.D., Associate Professor of Anatomy.

A.M. 1906, Ph.D. 1910, Columbia.

JOHN R. CARTY, M.D., Associate Professor of Radiology.
Radiologist, New York Hospital.

B.S. 1917, Princeton; M.D. 1921, Cornell.

HERBERT F. TRAUT, M.D., Associate Professor of Obstetrics and Gynecology.

Attending Obstetrician and Gynecologist, New York Hospital.

B.S. 1917, Whitman; M.D. 1923, Johns Hopkins.

WILLIAM DEWITT ANDRUS, M.D., Associate Professor of Surgery.
Attending Surgeon, New York Hospital.

A.B. 1916, A.M. 1917, Oberlin; M.D. 1921, Johns Hopkins.

HENRY B. RICHARDSON, M.D., Associate Professor of Medicine.

Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital.

A.B. 1910, M.D. 1914, Harvard.

- HAROLD J. STEWART, M.D.**, Associate Professor of Medicine.
Attending Physician, New York Hospital.
A.B. 1915, M.D. 1919, A.M. 1923, Johns Hopkins.
- GEORGE W. HENRY, M.D.**, Associate Professor of Psychiatry.
Attending Psychiatrist, New York Hospital.
A.B. 1912, Wesleyan; M.D. 1916, Johns Hopkins.
- JAMES A. HARRAR, M.D.**, Associate Professor of Clinical Obstetrics and Gynecology.
Attending Obstetrician and Gynecologist, New York Hospital.
M.D. 1901, University of Pennsylvania.
- MORTON C. KAHN, Ph.D.**, Associate Professor of Public Health and Preventive Medicine.
B.S. 1916, Ph.D. 1924, Cornell; A.M. 1917, Columbia.
- *HENRY JAMES SPENCER, M.D.**, Associate Professor of Clinical Medicine.
Associate Attending Physician, New York Hospital; Visiting Physician and Director, Second Medical Division, Bellevue Hospital.
A.B. 1907, Syracuse; A.M. 1908, Williams; M.D. 1913, Columbia.
- McKEEN CATTELL, M.D.**, Associate Professor of Pharmacology.
B.S. 1914, Columbia; A.M. 1917, Ph.D. 1920, M.D. 1924, Harvard.
- CONNIE M. GUION, M.D.**, Associate Professor of Clinical Medicine.
Assistant Attending Physician, New York Hospital.
A.B. 1906, Wellesley; A.M. 1913, M.D. 1917, Cornell.
- LEWIS D. STEVENSON, M.D.**, Associate Professor of Clinical Neurology and Assistant Professor of Neuropathology.
Assistant Attending Physician, New York Hospital.
Associate Visiting Physician, Bellevue Hospital.
A.B. 1916, M.D. 1916, Queen's University.
- WILLIAM F. MACFEE, M.D.**, Associate Professor of Clinical Surgery.
Associate Attending Surgeon, New York Hospital.
A.B. 1914, University of Tennessee; M.D. 1918, Johns Hopkins.
- GEORGE PAPANICOLAOU, M.D.**, Associate Professor of Anatomy.
M.D. 1904, Athens; Ph.D. 1910, Munich.
- R. GORDON DOUGLAS, M.D.**, Associate Professor of Obstetrics and Gynecology.
Attending Obstetrician and Gynecologist, New York Hospital.
M.D.C.M. 1924, McGill.
- LOUIS F. HAUSMAN, M.D.**, Associate Professor of Clinical Neurology and Associate in Neuro-Anatomy.
Associate Visiting Physician, Bellevue Hospital.
A.B. 1912, College of the City of New York; M.D. 1916, Cornell.

ASSISTANT PROFESSORS

- JOHN C. A. GERSTER, M.D.**, Assistant Professor of Clinical Surgery.
A.B. 1902, M.D. 1905, Columbia.

*On leave of absence 1937-38.

ARTHUR L. HOLLAND, M.D., Assistant Professor of Clinical Medicine.
Associate Attending Physician, New York Hospital; Consulting
Physician, Memorial Hospital.
M.D. 1897, New York University.

ROBERT A. COOKE, M.D., Assistant Professor of Clinical Medicine.
Assistant Attending Physician, New York Hospital.
A.B. 1900, A.M. 1904, Rutgers; M.D. 1904, Columbia.

RALPH G. STILLMAN, M.D., Assistant Professor of Clinical Pathology.
Clinical Pathologist, New York Hospital.
A.B. 1903, Yale; M.D. 1907, Columbia.

CARY EGGLESTON, M.D., Assistant Professor of Clinical Medicine.
Associate Attending Physician, New York Hospital; Visiting
Physician, Bellevue Hospital.
M.D. 1907, Cornell.

LOUIS C. SCHROEDER, M.D., Assistant Professor of Clinical Pediatrics.
Attending Pediatrician, New York Hospital.
M.D. 1911, Columbia.

GUILFORD S. DUDLEY, M.D., Assistant Professor of Clinical Surgery.
Associate Attending Surgeon, New York Hospital; Visiting Sur-
geon and Director, Second Surgical Division, Bellevue Hospital.
A.B. 1910, M.D. 1913, Cornell.

GEORGE W. WHEELER, M.D., Assistant Professor of Applied Bacteri-
ology.
Clinical Bacteriologist, New York Hospital.
M.D. 1907, Cornell.

HAROLD E. B. PARDEE, M.D., Assistant Professor of Clinical Medicine.
Associate Attending Physician, New York Hospital.
A.B. 1906, M.D. 1909, Columbia.

WALTER C. KLOTZ, M.D., Assistant Professor of Public Health and
Preventive Medicine.
Director, Out-Patient Department, New York Hospital.
M.D. 1898, Columbia.

ARTHUR PALMER, M.D., Assistant Professor of Clinical Surgery, and
Acting Head, Department of Otolaryngology.
Associate Attending Surgeon, Otolaryngology, New York Hos-
pital.
A.B. 1911, Brown; M.D. 1915, Cornell.

MORRIS K. SMITH, M.D., Assistant Professor of Clinical Surgery.
Attending Surgeon, St. Luke's Hospital.
A.B. 1907, A.M. 1911, M.D. 1911, Dartmouth.

HERVEY C. WILLIAMSON, M.D., Assistant Professor of Clinical Ob-
stetrics and Gynecology.
Attending Obstetrician and Gynecologist, New York Hospital.
M.D. 1908, New York University.

- WILLIAM H. CHAMBERS, Ph.D.**, Assistant Professor of Physiology.
B.S. 1915, M.S. 1917, Illinois; Ph.D. 1920, Washington University.
- HARRY GOLD, M.D.**, Assistant Professor of Pharmacology.
A.B. 1919, M.D. 1922, Cornell.
- HOWARD S. JECK, M.D.**, Assistant Professor of Clinical Surgery (Urology).
Assistant Attending Surgeon, Urology, New York Hospital; Associate Visiting Surgeon, Department of Urology, Bellevue Hospital.
Ph.B. 1904, Yale; M.D. 1909, Vanderbilt.
- RUSSEL H. PATTERSON, M.D.**, Assistant Professor of Clinical Surgery.
Assistant Attending Surgeon, New York Hospital; Visiting Surgeon, Bellevue Hospital.
A.B. 1914, Georgia; M.D. 1918, Harvard.
- GERVAIS W. McAULIFFE, M.D.**, Assistant Professor of Clinical Surgery (Otolaryngology).
Assistant Attending Surgeon, Otolaryngology, New York Hospital.
M.D. 1920, Long Island College Hospital.
- HAROLD G. WOLFF, M.D.**, Assistant Professor of Medicine.
Associate Attending Physician, New York Hospital.
B.S. 1918, College of the City of New York; M.D. 1923, M.A. 1928, Harvard.
- PAUL REZNIKOFF, M.D.**, Assistant Professor of Medicine.
Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital.
B.S. 1916, New York University; M.D. 1920, Cornell.
- EDWARD CUSSLER, M.D.**, Assistant Professor of Clinical Medicine.
Associate Attending Physician, New York Hospital.
M.D. 1904, Columbia.
- SEWARD ERDMAN, M.D.**, Assistant Professor of Clinical Surgery.
Attending Surgeon, New York Hospital.
A.B. 1897, Princeton; M.D. 1902, Columbia.
- C. FREDERIC JELLINGHAUS, M.D.**, Assistant Professor of Clinical Obstetrics and Gynecology.
Attending Obstetrician and Gynecologist, New York Hospital.
A.B. 1897, College of the City of New York; M.D. 1901, Columbia.
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MARIAN TYNDALL, A.B., M.D., Instructor in Clinical Medicine.
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KATHERINE F. WOODWARD, A.B., M.D., Assistant in Clinical Psychiatry.
HERMAN WORTIS, B.S., M.D., Instructor in Clinical Neurology.
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FRANK H. GLENN, M.D.

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¹Transfusions.²Proctology.

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Director

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WILLIAM A. COOPER, M.D.	GUSTAVUS A. HUMPHREYS, M.D. ¹

¹Urology.

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ALPHONSE E. TIMPANELLI, M.D.	

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RAYMOND R. SQUIER, M.D.	

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Resident Obstetrician and Gynecologist

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¹Urology.²{Otolaryngology.
Ophthalmology.

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 JAMES E. MILLER, M.D.
 MAHLON F. MILLER, M.D.

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 CLAIR B. CRAMPTON, M.D.
 LESTON E. FITCH, M.D.
 EUGENE L. GRIFFIN, M.D.
 PEMBROKE G. GROVE, M.D.
 JAMES H. HERROD, M.D.
 FREDERIC G. HIRSCH, M.D.
 GERARD W. DEL JUNCO, M.D.
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 ALLAN ROOS, M.D.
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 HERBERT M. WILLIAMS, M.D.

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PHILIP SHIPPER, M.D.

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Resident Pediatrician

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COLIN MACRAE, M.D.

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OWEN S. ODGEN, M.D.

THISTLE M. MCKEE, M.D.

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ALBERT M. HORNE, M.D.

MARGARET DANN, M.D.

JACOB S. LIGHT, M.D.

MARTIN J. GLYNN, JR., M.D.

JOSEPH L. RANKIN, JR., M.D.

PSYCHIATRY

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GEORGE W. HENRY, M.D.

Associate Attending Psychiatrists

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NORVELLE C. LAMAR, M.D.

C. DILLER RYAN, M.D.

Assistant Attending Psychiatrist

VALER BARBU, M.D.

Assistant Attending Physician

CARL BINGER, M.D.

Attending Dental Surgeon

DAVID AUSTIN SNIFFEN, D.D.S.

Psychiatrists to Out-Patients

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CHARLOTTE MUNN, M.D.

SMILEY BLANTON, M.D.

JOSEPH W. OWEN, M.D.

B. MILDRED EVANS, M.D.

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HANS SYZ, M.D.

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BETTINA WARBURG, M.D.

LESLIE E. LUEHRS

KATHERINE F. WOODWARD, M.D.

Assistant Psychiatrists to Out-Patients

GEORGE H. GEROW, M.D.	CHARLES M. HOLMES, M.D.
DONALD M. HAMILTON, M.D.	LEO STONE, M.D.

Graduate Clerk to Out-Patients

DANIEL F. BROPHY, M.D.

RESIDENT STAFF

Resident Psychiatrists

EDWIN J. DOTY, M.D.	EDWIN E. MCNIEL, M.D.
HERBERT S. RIPLEY, JR., M.D.	

Assistant Resident Psychiatrists

RUTH E. JAEGER, M.D.	KENNETH G. REW, M.D.
LINCOLN RAHMAN, M.D.	CUTHBERT H. ROGERSON, M.D.

Junior Assistant Resident Psychiatrists

VERONICA C. BROWN, M.D.	MARIANNE HORNEY, M.D.
PAUL W. SPEAR, M.D.	

PATHOLOGY

Pathologist

EUGENE L. OPIE, M.D.

Associate Pathologist

ROBERT A. MOORE, M.D.

Assistant Pathologists

D. MURRAY ANGEVINE, M.D.	JACOB FURTH, M.D.
HENRY W. FERRIS, M.D.	CHARLES T. OLCOTT, M.D.
LEWIS D. STEVENSON, M.D.	

Resident Pathologist

JOHN W. HALL, JR., M.D.

Interns in Pathology

CARL GOETSCH, M.D.	EDWARD J. HEHRE, M.D.
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RADIOLOGY

Radiologist

JOHN R. CARTY, M.D.

Assistant Radiologists

ALEXANDER ALEXION, M.D.	JOE C. RUDE, M.D.
WILLIAM M. ARCHER, M.D.	IRVING SCHWARTZ, M.D.
ALFRED F. HOCKER, M.D.	ALLAN TUGGLE, M.D.
FRIEDRICH G. KAUTZ, M.D.	SYDNEY WEINTRAUB, M.D.
E. FORREST MERRILL, M.D.	STEPHEN WHITE, M.D.

LAWSON E. MILLER, 2ND, M.D. JOSEPH V. SULLIVAN, M.D.
DAN TUCKER, M.D.

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MARGUERITE M. LEASK	GUSTAV I. STEFFEN, Ph.D.
RUTH THOMAS, C.P.H.	ELIZABETH WATSON, A.M.

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GEORGE F. EGAN, D.M.D.	JAMES A. MCAULEY, D.D.S.
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EUGENE J. GUENARD, D.D.S.	ROLAND E. MORSE, D.M.D.
PHILIP R. UNDERWOOD, D.L.S.	

Assistant Dentists

EDWARD M. CARNEY, D.M.D.	GERALD R. SHIPMAN, D.D.S.
RICHARD A. CLINCHY, JR., D.D.S.	EDWARD STROH, D.D.S.
MILTON L. GABEL, D.D.S.	THOMAS H. SWIFT, D.D.S.
PAUL R. LEPROHON, D.D.S.	CLINTON B. VAN NATTA, D.D.S.
CHARLES R. PHINNEY, D.D.S.	RAYMOND WALDMANN, D.D.S.
	ALBERT ZOLA, D.D.S.

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ASA L. LINCOLN, M.D., *Acting Director*
FOSTER KENNEDY, M.D., *Visiting Physician in charge of
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MALCOLM GOODRIDGE, M.D. WALTER L. NILES, M.D.

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FOSTER KENNEDY, M.D.¹ ASA L. LINCOLN, M.D.
JOHN H. RICHARDS, M.D. HENRY B. RICHARDSON, M.D.
HENRY JAMES SPENCER, M.D.

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JAMES M. BETHEA, M.D. PAUL REZNIKOFF, M.D.
SAMUEL BROCK, M.D.¹ LEWIS D. STEVENSON, M.D.¹
LOUIS HAUSMAN, M.D.¹ S. BERNARD WORTIS, M.D.¹
MILTON HELPERN, M.D. FRANK HART PETERS, M.D.
IRVING S. WRIGHT, M.D.

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ABRAM A. ANTOVILLE, M.D. EDGAR MAYER, M.D.
JAMES R. BEARD, JR., M.D. MARY E. O'SULLIVAN, M.D.¹
AARON BELL, M.D.¹ JOSEPH W. OWEN, M.D.¹
ZACHARIAS BERCOVITZ, M.D. NORMAN PAPAE, M.D.
EDWARD A. BURKHARDT, M.D. HELEN S. ROGERS, M.D.¹
PETER DENKER, M.D.¹ WILLIAM D. STUBENBORD, M.D.
A. WILBUR DURYEE, M.D. GURNEY TAYLOR, M.D.
OLGA KNOFF, M.D.¹ BYARD WILLIAMS, M.D.
ALEXANDER WOLF, M.D.¹

Clinical Assistant Visiting Physicians

JOHN LAMONT ALLEY, M.D. JOSEPH KOVACS, M.D.
NATHAN B. BLUESTONE, M.D. ABRAHAM LIEBERSON, M.D.
KEEVE BRODMAN, M.D. ALFRED A. LILIENFELD, M.D.
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HENRY B. KIRKLAND, M.D. JOSEPH YASWEN, M.D.
MARGARET KLUMPP, M.D. SEYMOUR ZUCKER, M.D.

Resident Physician

WILSON FITCH SMITH, JR., M.D.

¹Neurology.

*Leave of absence 1937-38.

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ALEXANDER R. STEVENS, M.D., *Visiting Surgeon in charge of
Urological Service*

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ALEXANDER R. STEVENS, M.D. ²	

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ROBERT S. HOTCHKISS, M.D. ²	WILFRED D. WINGEBACH, M.D. ¹

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Resident Surgeon

HERBERT J. RIEKERT, M.D.

Resident Urologist

JOHN E. ZAILSKY, M.D.

Resident Surgeon, Neurology

R. YORKE HERREN, M.D.

Visiting Roentgenologist

JACOB BUCKSTEIN, M.D.

¹Neurology.

²Urology.

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GEORGE F. HOLMES, <i>Secretary</i>	

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ALFRED S. TAYLOR, M.D.	

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H. C. COE, M.D.	GEORGE W. JARMAN, M.D.
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ARTHUR L. HOLLAND, M.D.	

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CHARLES M. WILLIAMS, M.D.	

Ophthalmologists

ARNOLD KNAPP, M.D.	ALGERNON B. REESE, M.D.
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Neurologist

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Laryngologist

D. BRYSON DELAVAN, M.D.

Urologist

EDWARD L. KEYES, M.D.

Roentgenologists

LEWIS GREGORY COLE, M.D.	HARRY M. IMBODEN, M.D.
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Statistician

PROFESSOR WALTER F. WILLCOX

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GEORGE E. BINKLEY, M.D.	HAYES E. MARTIN, M.D.
GEORGE T. PACK, M.D.	

Roentgenologist

RALPH E. HERENDEEN, M.D.

Assistant Roentgenologist

JAMES J. DUFFY, M.D.

Dental Surgeon

A. F. ACKERMAN, D.D.S.

Attending Physician

LLOYD F. CRAVER, M.D.

*Assistant Physicians*GEORGE HALL HYSLOP, M.D.³HAROLD DARGEON, M.D.⁴*Associate Attending Surgeons*

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BYRON STOOKEY, M.D. ³	HOWARD C. TAYLOR, JR., M.D.
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Assistant Surgeons

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RUSSELL S. FERGUSON, M.D.	

Clinical Assistants

NORMAN L. HIGINBOTHAM, M.D.	JOHN KELLY, M.D.
GORDON P. MCNEER, M.D.	

Anaesthetists

HARRY LANDESMAN, M.D.	ANNA E. ARMSTRONG, R.N.
ALFRED E. PHELPS, M.D.	

Clinical Fellows

JOHN V. BLADY, M.D.	J. ELLIOTT SCARBOROUGH, M.D.
ROBERT L. BROWN, M.D.	CHARLES A. WALTMAN, M.D.
SAMUEL J. BINKLEY, M.D.	WILLIAM O. WUESTER, M.D.
JOSEPH FARROW, M.D.	GRAY TWOMBLEY, M.D.
EDGAR FRAZELL, M.D.	M. E. HOWE, M.D.

¹Urology.²Gynecology.³Neurology.⁴Pediatrics.

DEPARTMENT OF LABORATORIES

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HELEN Q. WOODWARD, Ph.D.	Chemist
KANEMATSU SUGIURA, Sc.D.	Chemist
HELEN R. DOWNES, Ph.D.	Chemist
GIOACCHINO FAILLA, E.E., D.Sc.	Physicist
EDITH M. QUIMBY, M.A.	Associate Physicist
ELISE S. L'ESPERANCE, M.D.	Serologist
JOHN C. TORREY, Ph.D.	Bacteriologist
HALSEY J. BAGG, Ph.D.	Biologist
LEAH RICHARDS, M.A.	Biologist
CLARENCE R. HALTER, Ph.D.	Associate Biologist
PAUL S. HENSHAW, Ph.D.	Biophysicist
DOROTHY FRANCIS, Ph.D.	Assistant Biophysicist
AMELIA ELKIND, D.Sc.	Histologist
WILLIAM S. DUNN	Photographer
MARIE L. HESSELBACH, A.B.	Technician
GEORGINA E. HILDERBRAND, A.B.	Technician
BARBARA SMITH, A.B.	Technician
FLORA HAGOPIAN, M.A.	Technician
JOHN JACKSEN	Technician

GENERAL STATEMENT HISTORY

CORNELL UNIVERSITY MEDICAL COLLEGE was established by the Board of Trustees of Cornell University on April 14, 1898, when they elected Dr. William M. Polk Director of the College and Dean of the Medical Faculty, and appointed six professors. The medical college was made possible by the munificence of Colonel Oliver H. Payne, who provided the funds for the erection of the original building of the medical college located at 28th Street and First Avenue, and pledged his support to the new institution. For several years he provided funds for the annual support of the college and later placed the institution on a secure foundation by making generous provision for its permanent endowment by a gift of over four million dollars.

In October, 1898, instruction began in temporary quarters. As the medical college admitted a number of students to advanced standing, Cornell University granted the degree of Doctor of Medicine for the first time in 1899.

In order to link up closely the medical college in New York City with the University of which it is a part, instruction in pre-clinical subjects was begun at Ithaca the same year that the Cornell University Medical College came into being in New York City. The first two years of medical studies could be pursued either at Ithaca or in New York, while all students joined in New York City for the last two years. The plan providing instruction at Ithaca was changed in 1908, as it was felt that the medical students should come under the influence of the teaching centered in the various New York hospitals at an earlier time in their career, and since that date only the first year of medical instruction has been offered on the campus of Cornell University at Ithaca.

The Cornell University Medical College from its foundation has undertaken to carry out two allied activities, the development of physicians of the best type and the extension of medical knowledge by means of research. The medical faculty has held from the beginning of its existence the attitude that these two functions are necessary as constituting a true university school. It is committed not only to conduct teaching of high order, but also to study disease and the sciences underlying medicine in order to add to medical knowledge.

THE NEW YORK HOSPITAL-CORNELL MEDICAL COLLEGE ASSOCIATION

The future of Cornell University Medical College is now bound up with that of the New York Hospital, and since September, 1932, the two institutions have occupied the same plant.

The New York Hospital was founded by Royal Charter on June 13, 1771, in the reign of King George III, and has stood throughout the life of the nation as one of the foremost hospitals in the United States, as an institution rendering service to the sick and injured, and as a center of medical education. For a number of years the hospital and the medi-

cal college had been partially affiliated. In June, 1927, an agreement was entered into between Cornell University and the New York Hospital by which the New York Hospital-Cornell Medical College Association was formed for the purpose of bringing together their facilities and cooperating in the care of patients, in medical education, and in medical research. In order to harmonize the interests of the hospital and of the medical college, the Joint Administrative Board was formed, consisting of three representatives of each institution and a seventh member elected by those appointed by the hospital and by the university.

Additional endowment was secured by each institution. A group of buildings was erected along the East River between 68th and 71st Streets, adjoining the Rockefeller Institute for Medical Research. The new plant affords separate buildings for each of the various laboratory departments, and includes approximately 1000 hospital beds. Provision is made for medicine, surgery, obstetrics and gynecology, pediatrics, and psychiatry in five distinct clinical units.

The faculty of the medical college and the professional staff of the hospital are organized so as to form one body established on a university basis.

The new plant completed in 1932 affords very favorable conditions for the conduct of medical education, for the pursuit of medical research, and for the care of patients in all phases of medical practice.

FACILITIES FOR INSTRUCTION

From the point of view of medical instruction, the facilities provided by the new plant of the New York Hospital-Cornell Medical College Association are in many respects unexcelled. The plant consists of eleven buildings, joined either directly or by underground passages. All of these buildings have been designed as parts of a great teaching institution, and in planning them much thought was given to the problems of teaching. Nearly five years were required to plan and construct the group of buildings to be devoted to the care of patients, to medical teaching, and to scientific research in the various fields of medicine.

The instruction in the medical sciences is conducted in a group of laboratories extending along York Avenue from 68th to 70th Street, centering in a court at the end of 69th Street, where the entrance of the medical college is located. Four buildings five stories high with two basements face York Avenue. The two outer buildings are connected with the central group by buildings two stories in height. At the northern end of the group is the laboratory of the Department of Anatomy with the Department of Public Health and Preventive Medicine in the connecting wing. The building at the southern end contains the laboratories of Biochemistry and Pharmacology. The central group of buildings is formed by the laboratories of the Department of Physiology on the south, and those of the Department of Bacteriology and Immunology on the north, joined by a seven-story building which contains the offices of the medical college, the library, and the Depart-

ment of Pathology. This central building of the college is joined on all floors with the central hospital building.

Student laboratories and lecture rooms are provided on the second and third floors of these buildings and extensive facilities for research by staff and students are available on other floors. Locker rooms are provided for the use of students. A cafeteria under the direction of the chief dietitian of the New York Hospital is maintained for students and faculty.

Clinical instruction is given in the five separate clinics forming the New York Hospital. The medical and surgical clinics occupy the central hospital building, while the women's clinic, the pediatric clinic, and the psychiatric clinic extend from north to south, overlooking the East River. Each clinic contains, besides provision for bed-patients, its own out-patient department, lecture rooms and laboratories for routine study and for clinical research. Special provision has also been made for the laboratory work of students. The medical clinic occupies the second to fourth floors of the central hospital building, with six pavilions for bed-patients, three floors for its out-patient department, and extensive laboratories for chemical, physiological, and biological research.

The surgical clinic occupies the pavilions from the fifth to the ninth floor, with out-patient and other facilities for the various surgical specialties. The operating rooms are on the tenth and eleventh floors. Above are six floors containing one hundred rooms for private patients, while the living quarters for the resident staff are on the six floors at the top of the building. The entire hospital has a capacity of approximately 1,000 beds.

The head of each clinic, responsible for the care of patients and the conduct of the professional services of the hospital, is also professor in charge of the corresponding department of the medical college. Each clinical department is staffed in part by teachers and clinicians, including the professor in charge, who devote their entire time to the service of the college and hospital, while other members of these departments devote part of their time to private practice.

Although the clinical teaching is conducted largely in the New York Hospital, advantage is also taken of special facilities afforded by other hospitals. In some of these hospitals the staff appointments are controlled by the medical college, while in others the teaching privileges have been granted to the members of the staffs who are also members of the medical college faculty.

BELLEVUE HOSPITAL. Bellevue is the central hospital of the New York City Department of Hospitals. It contains 2,300 beds and is devoted to the treatment of acute diseases. It is organized in four divisions, one of which has been placed at the disposal of the faculty of Cornell University Medical College for medical instruction. The services conducted by the college include a medical service and a surgical service, each of 90 beds, a urological service and a neurological service of approximately 60 beds each. The staffs of these services are nominated by the college from among the members of its faculty and

teaching staff, and the medical college is responsible for the professional conduct of these services.

MEMORIAL HOSPITAL. Through the generosity of the late Dr. James Douglas, who provided the hospital with an endowment for the study and treatment of cancer and allied diseases, the Memorial Hospital became affiliated in 1914 with Cornell University Medical College. According to an agreement between the Memorial Hospital and the College, the professional staff is named by the Council of the Medical College subject to the approval of the board of managers of the hospital. The facilities of the hospital, which are of exceptional value in the field of cancer, are available for study in this field by the members of the hospital staff, and unusual opportunities are afforded for instruction in the pathology, diagnosis, and treatment of neoplastic diseases.

THE JOHN E. BERWIND FREE MATERNITY CLINIC. An affiliation having been consummated between the John E. Berwind Free Maternity Clinic and Cornell University Medical College, the medical direction of the clinic is placed under the control of the college. The medical staff, including the resident and house staffs, is appointed by the clinic only on nomination by the medical college.

Cornell students are assigned to the clinic for practical instruction under the direction of the Professor of Obstetrics and Gynecology.

When Cornell students have been provided for, vacancies in the student staff will be filled by appointment. Application for such assignments should be made to the Superintendent of the Clinic, 125 East 103rd Street, New York, N. Y.

MANHATTAN STATE HOSPITAL, WARD'S ISLAND. This hospital for the care and treatment of mental diseases accommodates over 5,000 patients. Through the courtesy of the superintendent, the Department of Psychiatry is enabled to utilize this clinical material for bedside study of patients and for the instruction of students.

ST. LUKE'S HOSPITAL. Teaching privileges have been granted for surgical instruction which is conducted under the direction of a professor in Cornell University Medical College who is an attending surgeon of St. Luke's Hospital. The surgical service of this splendid institution affords valuable opportunities for the study of surgery.

WILLARD PARKER HOSPITAL. Instruction in infectious diseases is conducted at the Willard Parker Hospital, where staff positions are held by members of the faculty and teaching staff who have the privilege of conducting medical instruction.

LINCOLN HOSPITAL. This unit of the New York City Department of Hospitals has a bed capacity of 233 and facilities for handling cases in all divisions of clinical work. Through cooperative arrangements made possible by members of our teaching staff holding assignments on the hospital staff, a certain part of the teaching of medicine in the second year course is carried out on the wards of Lincoln Hospital. The abundance of clinical material and the type of disease met with in this institution afford a valuable adjunct to the work in this part of the medical course.

NEW YORK EYE AND EAR INFIRMARY. This institution has the distinction of being the oldest specialty hospital in this country. Located at the same site, Second Avenue and Thirteenth Street, since 1856, it has built up a staff of high excellence and with its very large patient attendance averaging over 600 visits daily, unparalleled opportunities are offered for the teaching of these specialties. Through cooperative arrangements with our division of ophthalmology, fourth year students receive a part of their training in the wards and out-patient department of this hospital.

THE RUSSELL SAGE INSTITUTE OF PATHOLOGY

This institute has been associated with Cornell University Medical College since 1913, through its affiliation with the Second Medical (Cornell) Division of Bellevue Hospital. It has supported research work in metabolism conducted by the members of the Department of Medicine. Dr. Eugene F. Du Bois, Professor of Medicine, is the medical director of the institute. The respiration calorimeter which was operated for a number of years by Dr. Du Bois at Bellevue Hospital has been transferred by the directors of the institute to the New York Hospital, and sufficient funds for carrying on the important metabolic studies of the staff have been provided by the institute.

THE LIBRARY

The reading room of the library is situated on the second floor of the central group of laboratory buildings, directly over the entrance of the medical college. The current journals are kept in racks about three sides of the room. The book stacks are directly behind and open to the reading room, extending down to the sub-basement with six floors of stacks and accommodations for about 100,000 volumes. There is also a library seminar room, and several rooms for the library staff.

The library contains at the present time about 23,000 volumes, largely made up of complete sets of important journals in the fields of clinical medicine and the medical sciences, in English, German, and French. There are also well-selected collections of monographs, textbooks, and reprints.

Several of the departments of the medical college have libraries containing journals, monographs, and textbooks pertaining especially to the subject matter of the department. These serve to supplement in a useful way the scope of the main library.

The library is under the direction of a committee of the faculty, and in charge of a trained librarian who gives instruction to students on the proper methods of using the library and of searching medical literature.

A special fund, maintained in memory of Alfred Moritz Michaelis, M.D., Cornell 1925, who died the year after his graduation, is used for the purchase of books of cultural and historic value in medicine.

In addition to the college library, students may obtain certain privileges at the library of the New York Academy of Medicine, Fifth Avenue and 103rd Street, the second largest medical library in the United States.

REQUIREMENTS FOR ADMISSION AND GRADUATION

The faculty of Cornell University Medical College, in defining the qualifications for admission to the medical profession, attaches particular importance to the liberal culture and general education implied by the acquisition of a college degree in arts or science. Accordingly, only the following classes of candidates for the degree of Doctor of Medicine are admitted to Cornell University Medical College:

- I. Graduates of approved colleges or scientific schools; *or*
- II. Seniors in good standing in approved colleges or scientific schools upon condition that their faculty will permit them to substitute the first year in Cornell University Medical College for the fourth year of their college course, and will confer upon them the baccalaureate degree upon the satisfactory completion of the first year's work in medicine. No student admitted under this clause is permitted to enter the second year of the curriculum without having obtained a baccalaureate degree.

ALL CANDIDATES FOR ADMISSION shall have satisfactorily completed, in an approved college, at least the following minimum requirements, in which a semester hour is the credit value of at least sixteen weeks' work, consisting of one hour of lecture or recitation *or* two or more hours of laboratory work, per week.

1. Physics, 6 semester hours, including laboratory work.
2. Chemistry, 12 semester hours (8 hours of inorganic, including qualitative analysis and 4 hours of organic chemistry). Quantitative analysis is recommended but not required.
3. Biology (Zoology), 6 semester hours, including laboratory work. In addition to this minimum requirement, a course in general histology with embryology including the early development of the frog and chick is very desirable. Courses in the comparative anatomy of vertebrates and elementary histological technic are also recommended.
4. English, 6 semester hours.
5. Modern language, 6 semester hours—French or German.

Students planning to study medicine should bear in mind that bacteriology, immunology, human physiology and abnormal psychology are properly subjects of the medical, and not of the pre-medical curriculum. In planning pre-medical work students are advised to elect subjects which will lay a broad foundation for medical study rather than to anticipate courses required as a part of the medical curriculum. It is also suggested that students follow mathematics of college grade up to and including calculus, if advanced work in the medical sciences is contemplated.

APPLICATIONS FOR ADMISSION

All applications and inquiries regarding admission are to be addressed to the Assistant Dean, from whom application forms may be obtained. Applications for admission should be submitted not later than January of the calendar year in which admission is desired, and should be followed promptly by an official transcript of the college record. A recent unmounted photograph of the applicant must be attached to each application.

All applicants, if requested, are required to present themselves *in person by appointment* at the office of the Assistant Dean at some time after their credentials have been submitted. Exception may be made in the case of applicants living at great distances.

Applications are passed upon by the Committee on Admissions after all credentials have been filed. Candidates are notified as promptly as possible of the decision of the Committee. Accepted applicants are required to make a deposit of one hundred dollars within a specified time, usually about two weeks after notification of admission. This deposit is *not returnable*, but is credited toward the first tuition payment. If he fails to make this deposit within the time specified the applicant forfeits his place in the medical college.

A medical student's qualifying certificate, issued by the New York State Education Department signifying that its requirements have been met, must be secured before registration by each student accepted for admission. An application blank for the certificate with full instructions will be sent by the college to each student admitted.

ADMISSION TO ADVANCED STANDING

When vacancies occur, students may be admitted to advanced standing under the following conditions:

Applications for advanced standing should be filed according to the procedure described for admission to the first year class, accepted applicants being required to make the deposit of one hundred dollars. Applicants must not only furnish acceptable evidence of having satisfactorily completed in an approved medical school all the work required of students of the class they wish to enter, but also of having completed the conditions of admission to the first year class at Cornell University Medical College. They must also present a certificate of honorable dismissal from the medical school or schools they have attended.

Examinations may be required in any of the medical courses taken at another school.

EXAMINATIONS AND PROMOTIONS

I. **ADVANCEMENT.** Students are advanced in their course upon recommendation of the Committee on Promotion and Graduation, which is composed of the heads of departments or their representatives responsible for the more important courses of each year. Usually at

the end of each term the Committee reviews the work of each student, evaluating his progress from the standpoint of the effort he puts into his work, his seriousness of purpose and his scholastic resourcefulness. No grades are ever announced to students.

II. EXAMINATIONS. Examinations for advancement, graduation, and admission to advanced standing are held at the close of the academic year, except that in each course extending through a part of the year only, examinations may be held at the close of the course in the hours allotted thereto.

Students who fail in more than 40 per cent of the required hours of the first or subsequent years, must withdraw from the medical college. Students failing in less than the number of hours prescribed above may be reexamined, but only after pursuing additional work, under the direction of the head of the department in which a failure has occurred, throughout at least one term, or during a summer vacation.

Students who fail on reexamination are required to withdraw from the medical college, unless under special circumstances they are permitted by the Committee on Promotion and Graduation to repeat courses in which failures have occurred. Students repeating any work may be forbidden by the committee to take all or some of the courses they would normally carry.

Any student who by quality of work or conduct indicates an unfitness to enter the profession of medicine may, at the discretion of the faculty, be required at any time to withdraw from the medical college.

REQUIREMENTS FOR GRADUATION

The candidates for the degree of Doctor of Medicine must have attained the age of twenty-one years, and be of good moral character. They must have spent at least four years of study as matriculated medical students, the last of which must have been in Cornell University Medical College. They must have satisfactorily completed all the required work of the medical curriculum, must have passed all prescribed examinations, and be free from indebtedness to the college. At the end of the fourth year every student who has fulfilled these requirements will be recommended to the President and Trustees of Cornell University for the degree of Doctor of Medicine.

EXAMINATIONS FOR MEDICAL LICENSURE

Graduates of Cornell University Medical College are admitted unconditionally to the examinations for license to practice medicine in all states of the United States.

In New York State all credentials for admission to examinations for license should be filed with the State Education Department at least fifteen days before the examinations are held. In 1938 these examinations will be held in February, June, and September (dates to be announced) at New York, Albany, Syracuse, and Buffalo. For complete information write to The Secretary, Board of Medical Licensure, Albany, New York.

Students and graduates of Cornell University Medical College are admitted to the examinations of the National Board of Medical Examiners, whose certificate is accepted by the Surgeons-General of the Army and Public Health Service of the United States and by the boards of medical licensure of forty-one states, Puerto Rico, Hawaii, and the Canal Zone. This certificate is also recognized by the respective authorities of England, Scotland, and Ireland. For information write to The National Board of Medical Examiners, 225 South Fifteenth Street, Philadelphia, Pa.

GENERAL INFORMATION

FEES AND EXPENSES

All fees for instruction and other charges are paid at the Business Office of the Medical College, Room F-108, 1300 York Avenue, New York, N. Y.

TUITION FEE \$500 per year.

This fee is payable at the beginning of the academic year or in two equal parts, in which case the first payment must be made at registration and the second on January 15. No refund or rebate will be made in any case.

An advance of \$100 on account of tuition is required of all applicants accepted for admission *and is not returnable*. At matriculation it is credited toward tuition.

MATRICULATION FEE \$10

This fee is payable only once, on admission.

BREAKAGE DEPOSIT \$10

This deposit is required of first, second, and third year students at the beginning of each academic year, and will be returned, less the amount charged for breakage, at the end of the year.

OBSTETRICS FEE \$10

This is a special fee, payable at the beginning of the *third* year.

FINAL EXAMINATION FEE \$25

This fee is payable on registration for graduation.

STUDENTS OF THE GRADUATE SCHOOL:

For fees, see page 92.

SPECIAL STUDENTS:

For fees, see page 92.

All students entering the medical college are required to provide themselves with satisfactory microscopes. Haemocytometers and haemoglobinometers will be required at the beginning of the third trimester of the second year. The necessary books are conservatively estimated to cost about \$75 per year.

All students should assure themselves that they can carry the financial burdens involved with reasonable certainty up to the time of graduation. Experience has proved that the student will need his entire time and undivided interest for study. It is unwise to depend upon earning any part of one's expenses during the college year. A student indebted to the college is ineligible for graduation.

STUDENT HEALTH SERVICE

All members of the first year class and all students transferred from other colleges are required to have a thorough physical examination by a member of the students health staff. All students are reexamined at the end of their medical course, and an x-ray examination of the lungs is made yearly. Regular daily office hours are held by the Student Health Service staff. Students pay no fees for the services of this staff. Health records are kept and students are advised concerning their physical condition and general health. All cases of illness must be reported immediately to the college office. Students may have in attendance physicians of their own choice, but a reasonable amount of co-operation between such physicians and the college health service is expected. A woman physician on the staff is available for women students.

SCHOLARSHIPS*

1. THE JOHN METCALFE POLK SCHOLARSHIP. A gift under the will of William Mecklenberg Polk, the first Dean of the medical college is awarded annually by the faculty. The scholarship amounts to about \$200 a year.

2. THE THORNE SHAW SCHOLARSHIP FUND. This fund provides three scholarships designated as:

First: A scholarship of approximately \$400 available to students after at least two years of study in the medical college.

Second: Two scholarships of approximately \$200 each available to students after at least one year of study in the medical college.

These scholarships are awarded by the faculty upon nomination by the Committee on Scholarships and Prizes. They are awarded annually in June and are for one year only. Students receiving the scholarships are notified of the award at the end of the session, and public announcement is made at the opening of the subsequent session in September.

3. MARY F. HALL SCHOLARSHIP. The income, amounting to about \$120 annually, from a fund established by bequest of Miss Mary F. Hall, is available to any woman student in Cornell University Medical College who needs its aid and who is a *bona fide* resident of the State of New York and was such prior to admission to the college.

PRIZES

1. FOR GENERAL EFFICIENCY. In commemoration of John Metcalfe Polk, an instructor in this college, who was graduated from Cornell University Medical College on June 7, 1899, and died on March 29, 1904, prizes will be presented at each commencement to the three students having the highest standing for the four years' work. Only those who have taken the full course of study at Cornell University Medical College are eligible. The first prize is \$250, the second \$100, and the third \$50.

*Scholarships are awarded primarily for merit, with need a secondary consideration.

2. **FOR EFFICIENCY IN GYNECOLOGY.** Established by Mrs. W. M. Polk in memory of William Mecklenburg Polk, M.D., LL.D., Dean and Professor of Gynecology in Cornell University Medical College from its founding in 1898 until his death, June 23, 1918, annual prizes are awarded to three members of the senior class, in order of merit, for special distinction in gynecology. The first prize is \$125, the second \$75, and the third \$50.

3. **FOR EFFICIENCY IN OTOTOLOGY.** Two prizes, the first of \$50, the second of \$25, are offered by Professor Frederick Whiting to the two students of the graduating class who make the best records in otology.

4. **FOR EFFICIENCY IN OBSTETRICS.** Two prizes, the first of \$60, the second of \$30, have been endowed by an anonymous donor in recognition of the work of Dr. Gustav Seeligman in obstetrics, to be given to the two students of the graduating class who have made the best records in obstetrics.

5. **FOR EFFICIENCY IN GENERAL MEDICINE.** The income of \$1,000 is offered as a prize for general efficiency in the Department of Medicine, in commemoration of Alfred Moritz Michaelis, who was graduated from Cornell University Medical College on June 11, 1925, and who died during his internship at Mt. Sinai Hospital, April 24, 1926. Presented at each commencement to a member of the graduating class who has pursued the full course at Cornell University Medical College.

6. **FOR EFFICIENCY IN RESEARCH.** In memory of William Mecklenburg Polk, M.D., LL.D., first Dean of the medical college, two prizes are offered to regularly matriculated students of the Cornell University Medical College, the first of \$200, and the second of \$50.

The awards are made annually at the opening exercises of the medical college in September for the best reports presented in writing of research work done by students, or for valuable reviews and logical presentations on medical subjects not to be found fully considered in a single text or reference book. If the papers submitted are not considered worthy of special commendation the prizes will be withheld.

Papers are submitted in quadruplicate in a sealed envelope marked, "Dean William Mecklenburg Polk Memorial Prize Committee", and must be in the Dean's Office not later than the first day of September.

The committee of awards for this prize consists of two members of the faculty from laboratory departments, and two from clinical departments.

LOAN FUNDS

1. **THE 1923 LOAN FUND.** This fund amounts to \$400 a year and is available as a loan to students needing financial assistance, preferably to a third year student.

2. **ALUMNI ASSOCIATION LOAN FUND.** The Alumni Association of the medical college has set aside sufficient funds to aid several students in meeting their tuition expenses. This fund will be administered by the medical college in cooperation with a committee of the Alumni

Association. Students receiving aid from this fund will, as a general rule, be selected from the upper classes.

3. **STUDENT LOAN FUND.** This fund has been collected by the students of the medical college, and is available for students of the third or fourth year class who are in need of immediate financial assistance.

ALPHA OMEGA ALPHA

Alpha Omega Alpha is a non-secret, Medical College Honor Society, membership in which is based upon scholarship, moral qualifications being satisfactory. It was organized at the College of Medicine of the University of Illinois, Chicago, August 25, 1902. A.O.A. is the only order of its kind on this continent.

Elections are made from students who have fully completed 2 years of a four-year curriculum, by unanimous vote of the active members acting on recommendations made by faculty advisers. Not more than one sixth of any class may be elected. As aspects of and indispensable to true scholarship come open-mindedness, individuality, originality, demonstration of studious attitude and promise of intellectual growth.

The Cornell Chapter of A.O.A. was organized May 2, 1910. Students are elected from the two upper classes in the fall of each year. A large number of the faculty are members and play an active part in the functions of the society, which comprise an initiation-dinner and occasional meetings and discussion groups. The Chapter also sponsors an annual open lecture delivered in the Medical School Auditorium on a cultural or historical phase of medicine.

EDUCATIONAL POLICIES AND PLAN OF INSTRUCTION

The medical college is divided into thirteen major departments, six of which are primarily concerned with the sciences underlying clinical medicine. They are anatomy, biochemistry, physiology, bacteriology and immunology, pathology, and pharmacology. Seven departments have as their major functions the study, treatment, and prevention of human disease, and maternity care. These are medicine, surgery, pediatrics, psychiatry, obstetrics and gynecology, public health and preventive medicine, and applied pathology and bacteriology.

The heads of these major departments, together with the President of the University, and the Dean, constitute the Executive Faculty, which is responsible for the educational policies of the college.

Courses required to be completed by each student before the degree of Doctor of Medicine is conferred by Cornell University are offered by each department. These courses are arranged, in their sequence and duration, to develop logically the knowledge and training of students and to build up gradually the requirements needed for graduation as Doctor of Medicine. The various departments also offer courses and opportunities for special study open to regular medical students, to candidates for advanced degrees in the Graduate School of Cornell University, and to qualified advanced students of medicine not candidates for degrees.

Medical knowledge is so extensive that only a small part of that needed for a successful career in medicine can be acquired during the time devoted to medical study by the medical college curriculum. The time devoted by the prospective physician to his preparation for the practice of Medicine includes at least one and often many more years of graduate medical education as intern or resident of a hospital, either in clinical or laboratory work, or both. The required period of study at Cornell University Medical College extends over four academic years of at least thirty-four weeks each. It is planned that studies may be pursued during vacation periods. This will provide an opportunity to shorten the time necessary to complete all required courses and allow more time for elective work. Study in other medical schools may also be arranged during the course if opportunities can be found.

As medical science and medical practice may be pursued in a variety of ways, it is the policy of the college to encourage the student to vary his course of study according to his special interests and particular talents as far as is consistent with meeting the requirements for the degree of Doctor of Medicine.

A thesis is not required for the degree of Doctor of Medicine, but students are encouraged to engage in individual work as far as their

time permits, with the hope that they may accomplish results worthy of publication. It is therefore desirable for some students to devote all their free time to a single subject in which they have a special interest.

The development of technical and scientific proficiency in the various special fields of clinical medicine is not encouraged during the regular medical course, but must await adequate training after graduation.

The first year of study is devoted to anatomy, biochemistry, and physiology, psychobiology. It is divided into trimesters.

During the second year the required courses in physiology, pathology, bacteriology and immunology, pharmacology, psychiatry and medicine occupy the first two trimesters. The last is devoted to technical training preparatory to the study of patients, courses being given in the subjects of physical diagnosis, applied pathology and bacteriology, topographical anatomy, applied pharmacology, infant feeding, neurology and neuropathology, and ophthalmology.

During the third and fourth years, students are divided into small groups for practical work in the various clinics and for elective work. The third and fourth year classes meet at noon each day for clinical lectures and demonstrations.

Time for elective work is provided in the fourth year, after students have had opportunities to acquire some knowledge of the medical sciences and of clinical medicine. Students are advised to consult informally members of the faculty in regard to the use of their time for elective work. It is deemed best not to establish a formal advisory system.

The details of the courses offered by each department are to be found in the departmental announcements.

The faculty expressly reserves the right to make alterations in the curriculum whenever advisable and without previous notice to students.

TABLE OF REQUIRED HOURS

	<i>First Year</i>	<i>Second Year</i>	<i>Third Year</i>	<i>Fourth Year</i>	<i>Total</i>	
ANATOMY	428	30		}	747	
HISTOLOGY	209					
NEURO-ANATOMY	80					
BIOCHEMISTRY	229				229	
PHYSIOLOGY	120	130			250	
PHARMACOLOGY		138			138	
BACTERIOLOGY		155			155	
PATHOLOGY		307		}	329	
NEUROPATHOLOGY		22				
APPLIED PATHOLOGY AND BACTERIOLOGY		117			117	
MEDICINE			335	321	}	806
PHYSICAL DIAGNOSIS		123				
NEUROLOGY		11				
DERMATOLOGY			16			
SURGERY (including Ortho- pedics and Urology)			335	288	}	658
OPHTHALMOLOGY		19				
OTOLARYNGOLOGY			16			
OBSTETRICS AND GYNECOLOGY			162	365 Min.	527	
PEDIATRICS		11	132	68	211	
PSYCHIATRY		33	33	94	}	179
PSYCHOBIOLOGY	19	(12*)				
PUBLIC HEALTH			84	32	116	
RADIOLOGY			8		8	
LEGAL MEDICINE				12	12	
MILITARY SCIENCE	(33*)					
ELECTIVES				(124)		
TOTALS	1085	1096	1121	1180	4482	

*Elective.

ANATOMY

CHARLES R. STOCKARD, Professor of Anatomy.

JOSE F. NONIDEZ, Professor of Anatomy.

CHARLES V. MORRILL, Associate Professor of Anatomy.

GEORGE PAPANICOLAOU, Associate Professor of Anatomy.

CHESTER LOOMIS YNTEMA, Assistant Professor of Anatomy.

LOUIS F. HAUSMAN, Associate in Neuro-Anatomy.

EMILIA M. VICARI, Research Associate in Anatomy.

CHARLES S. APGAR, Instructor in Anatomy.

WILLIAM T. JAMES, Instructor in Anatomy.

WALTER R. SPOFFORD, Assistant in Anatomy.

SAMUEL R. MAGRUDER, Assistant in Anatomy.

I. MORPHOLOGY

STRUCTURE OF MAN. This course considers the structure of the various organs and systems of the human body in the light of their variations and evolutions. The relationship of the parts, organs and systems is also explained by numerous facts gathered from experimental morphological studies on lower vertebrates.

The chief aim is to emphasize the idea that animal structures are constantly changing and varying, yet are so definite as to lend themselves to logical analysis.

Laboratory, 40 hours (elective), and demonstration conference, 22 hours (optional). Professor STOCKARD.

II. EMBRYOLOGY AND HISTOLOGY

The work in embryology presupposes a general knowledge of the subject, particularly that of the early development of the chick. It embraces a thorough study of the development of the mammalian embryo in the light of our knowledge of the evolution of the human body. Malformations resulting from developmental disturbances are broadly considered. The course is closely correlated with that of gross anatomy.

The work in histology includes the histogenesis and microscopic structure of all organs of the human body with the exception of the central nervous system (see Neuro-anatomy). Emphasis is laid on the relation of structure to function.

The tissues are studied principally by means of stained sections and practice is given in rapid identification of their diagnostic features. Demonstrations of living material are made and opportunities are offered for acquiring the essentials of histological technic.

A part of the course is devoted to seminars on current literature.

Laboratory course and lectures, 209 hours, October to March. Required of all first year students. Professor NONIDEZ, Dr. YNTEMA, and Assistants.

III. NEURO-ANATOMY

A laboratory course on the gross and microscopic anatomy of the human nervous system. Special emphasis is laid on the more important pathways and their functions.

Laboratory and demonstrations, 80 hours. Required of all first year students during the third term. Professor NONIDIZ and Dr. HAUSMAN.

IV. GROSS ANATOMY OF THE HUMAN BODY

This is taught by means of laboratory exercises and dissections. The required work includes: (a) Dissection of the part. (b) Demonstrations, study and discussion upon dissected and prepared specimens, and from standard text-books.

Total laboratory hours, 428 (minimum). First and second terms of the first year.

Course 1. A DEMONSTRATION COURSE. Demonstrations upon the cadaver, models and dissected preparations amplifying the courses in dissection during the first and second terms of the first year. Optional for first year students.

Course 2. STUDY ROOM COURSE IN LIVE ANATOMY. Since the ultimate aim of dissection is to acquaint the student not merely with the arrangement of structures in the cadaver, but with the facts of the living body, this course follows as a natural sequence to the work of the dissecting room. Optional to first year students.

Course 3. DISSECTION REVIEW. The work gives an opportunity for advanced dissection. Optional to students of the second, third or fourth years. Afternoons.

Course 4. TOPOGRAPHICAL ANATOMY. A study of the relations and topography of the parts of the body by means of frozen sections. Cleared preparations and living models are also used. Members of the class must submit a number of drawings made from the sections.

Laboratory, 33 hours. Required during the third trimester of the second year. Professors STOCKARD, MORRILL, and Assistants.

V. ELECTIVE COURSES

Course 1. PREPARATORY TO THE SPECIALTIES. These courses offer a thorough review of the embryology, histology and gross anatomy of the following organs and systems: (a) the eye; (b) the ear; (c) the face and neck, including especially the nose and accessory sinuses, the mouth and salivary glands, pharynx and larynx, thyroid and parathyroid glands; (d) the genito-urinary system, male and female; (e) the brain and spinal cord; (f) the thorax and abdomen; (g) the extremities, especially the joints and their mechanics. Laboratory, 40 hours. Professor STOCKARD.

Course 2. GENERAL HISTOLOGY. This course will comprise a study of the various types of tissues which form the several organs of the vertebrate body. The structures will be studied not only from the mere morphological standpoint, but the various biological problems

involved will be taken into consideration. The close relationship between structure and function will be elucidated.

Twenty lectures. Professor NONIDÉZ.

Course 3. THE ANATOMY OF THE INFANT. A course of lectures amplified by demonstrations and the study of preparations.

Twenty demonstrations arranged for in advance. Professor STOCKARD.

Course 4. DEVELOPMENTAL ARRESTS AND STRUCTURAL DEFICIENCIES. A discussion of the imperfections in development which may occur during various periods from the maturation of the germ cells, fertilization of the egg on through embryonic and fetal development.

Fifteen lectures. Professor STOCKARD.

Course 5. EXPERIMENTAL EMBRYOLOGY. These lectures begin with the history of the subject and the various aspects of the problems concerned. The experimental analysis of embryological processes is then considered from several points of view.

Twenty lectures with conferences considering the recent literature of the subject. Professor STOCKARD.

Course 6. REGIONAL ANATOMY. This course will comprise a thorough review by means of dissections, demonstrations and reading of the gross anatomy, histology and development of selected regions of the body and of organs and organ systems.

Laboratory and demonstration, 3 half days a week for one month.

Associate Professor MORRILL and Assistants.

Course 7. ANATOMICAL RESEARCH. To students desiring to pursue research in anatomical subjects the equipment of the entire department is available. Members of the staff will assign subjects and direct the progress of advanced work of this type. The work may be elected by students who enter with advanced credits, or by any student who has completed the preliminary courses in descriptive anatomy, histology and embryology. The course is also open to graduates in medicine or biology.

OTHER ELECTIVES. The Department of Anatomy will arrange a schedule of work to fit individual cases for a limited number of *fourth-year students* desiring to devote the major part or all of their elective time. Such work will be designed, in cases where sufficient time is available, to equip the student to become a laboratory assistant.

COURSES OPEN TO SPECIAL STUDENTS

1. EMBRYOLOGY. September to March. Fee \$50. Details, page 60.

2. HISTOLOGICAL TECHNIC.* Laboratory at least three hours daily and conferences with instructors. Fee \$30.

3 and 4. GENERAL HISTOLOGY AND MICROSCOPICAL ANATOMY. September to March. Fee \$50. Details on page 60.

5. DISSECTION.* See Courses I-IV, page 61. Fee \$30 per term (ten weeks); or for the entire dissection, \$50.

*Courses may be begun at any time.

6. NEURO-ANATOMY. March to May. Fee \$30. Details on page 61.
7. ANATOMICAL RESEARCH.* Subject to special arrangement with the head of the department.

BIOCHEMISTRY

_____, Professor of Biochemistry.
 RICHARD W. JACKSON, Assistant Professor of Biochemistry.
 WILLIAM H. SUMMERSON, Instructor in Biochemistry.
 WILLIAM M. CAHILL, Instructor in Biochemistry.
 JOSEPH P. CHANDLER, Instructor in Biochemistry.
 NATHAN F. BLAU, Research Associate in Biochemistry.

The instruction in biochemistry is concentrated in the first year, and is arranged upon the assumption that the student is already thoroughly grounded in the principles of chemistry and physics. The object is to impart that fundamental knowledge of biochemistry which is necessary to the comprehension of the bearings of chemistry upon physiology, pharmacology, and medicine.

The schedule during each term includes lectures, laboratory work, and conferences.

First trimester.

The elements of physical chemistry as applied to biology and medicine, with emphasis upon the fundamental properties of electrolytes and colloids. 59 hours.

Second trimester.

The chemistry of groups of organic compounds of special biological importance: the carbohydrates, fats, proteins, and purines. 84 hours.

Third trimester.

Physiological chemistry of the digestive secretions, bile, blood, milk, urine, pathological fluids, concretions, etc. 86 hours.

ELECTIVE COURSES

The laboratory is open to students of any class who wish to pursue advanced work or research.

COURSES OPEN TO SPECIAL STUDENTS

1. BIOCHEMISTRY. Fee \$25 a term.
2. RESEARCH WORK IN BIOCHEMISTRY.* Hours and fees to be arranged with each student.

PHYSIOLOGY

JOSEPH C. HINSEY, Professor of Physiology.
 DAYTON J. EDWARDS, Associate Professor of Physiology.
 WILLIAM H. CHAMBERS, Assistant Professor of Physiology.
 ROBERT A. PHILLIPS, Assistant Professor of Physiology.
 KENDRICK HARE, Instructor in Physiology.
 SAMUEL B. BARKER, Assistant in Physiology.

*Courses may be begun at any time.

First Year. Lectures, laboratory and conferences. Physiology of muscle and nerve, the central nervous system, the special senses, digestion and internal secretions. 120 hours.

Second Year. Lectures, laboratory and conferences. Physiology of the blood, circulation, respiration, excretion, and metabolism. 130 hours.

ELECTIVE COURSES

The department will arrange a schedule of work for fourth year students who wish to devote their elective time to physiology.

COURSES OPEN TO SPECIAL STUDENTS

1. PHYSIOLOGY. Fee \$50 for each term.
2. PHYSIOLOGICAL RESEARCH.* Subject to special arrangement with the head of the department.

BACTERIOLOGY AND IMMUNOLOGY

JAMES M. NEILL, Professor of Bacteriology and Immunology.

JOHN Y. SUGG, Assistant Professor of Bacteriology and Immunology.

JAMES R. DAWSON, JR., Instructor in Bacteriology and Immunology.

JOHN C. PETERSON, Assistant in Bacteriology and Immunology.

EVELYN JAFFE, Research Assistant in Bacteriology and Immunology.

The course given to second year students consists of lectures, laboratory work, and group conferences. Emphasis is placed upon the aspects of bacteriology and of immunology that are pertinent to an understanding of the infectious diseases. The course includes an analysis of the actual constituents of a number of important biological products in order to furnish a basis for interpretation of the value and the limitations of their uses in the treatment and prevention of infectious diseases. The study of material from patients is included in the laboratory part of the course, not only to acquaint the student with the technical procedures, but to illustrate the application of fundamental principles to practical methods. 155 hours.

ELECTIVE COURSES

The department will arrange a schedule of work for fourth year students who wish to devote their elective time to bacteriology and immunology.

PATHOLOGY

GENERAL PATHOLOGY, PATHOLOGICAL ANATOMY, EXPERIMENTAL PATHOLOGY

EUGENE L. OPIE, Professor of Pathology.

JAMES EWING, Professor of Oncology.

ROBERT A. MOORE, Assistant Professor of Pathology.

JACOB FURTH, Assistant Professor of Pathology.

JULES FREUND, Assistant Professor of Pathology.

*Courses may be begun at any time.

LEWIS D. STEVENSON, Assistant Professor of Neuropathology.
FRED W. STEWART, Associate in Pathology.
CHARLES T. OLCOTT, Instructor in Pathology.
HENRY W. FERRIS, Instructor in Pathology.
D. MURRAY ANGEVINE, Instructor in Pathology.
MILTON HELPERN, Instructor in Pathology.
ROBERT BURLINGHAM, Assistant in Pathology.
JACOB WERNE, Assistant in Pathology.
JOHN W. HALL, JR., Assistant in Pathology.

GENERAL PATHOLOGY

FACILITIES. The department of pathology occupies three floors of the central part of the college building, conveniently located above the library and in immediate contact with the hospital, the autopsy room being in the connecting wing between college and hospital. The teaching is largely concentrated on the third floor, where the autopsy room, demonstration room for pathological anatomy, anatomical museum, and class rooms are found. The fourth and fifth floors are chiefly unit laboratories for staff members and graduate students and for technical preparation. In addition, adequate animal quarters and facilities for experimental work are on the fifth, sixth, and seventh floors.

The museum contains a carefully selected collection of specimens, representing most of the common and many of the more unusual pathological lesions. It is especially rich in lesions of bones and in tumors. In addition to this mounted collection, there is available a very considerable amount of constantly changing gross material for student study.

The pathological service of the New York Hospital affords abundant opportunity for study of pathological anatomy and its relation to clinical medicine. The systematic records of autopsies performed at New York Hospital have been preserved since 1851 and in recent years protocols and microscopic slides have been carefully indexed and filed.

INSTRUCTION. The course of instruction is given in the second and third trimesters of the second year. Gross and histological lesions their pathogenesis and correlation with disturbed function are studied; there are experiments, lectures and class room demonstrations. These are supplemented by study of gross pathology at the autopsy table. The course begins with the degenerations, inflammation and repair, and proceeds with the various specific infections and tumors. The latter part of the course is devoted to special systemic pathology including an introduction to neuropathology.

COURSE I. GENERAL PATHOLOGY. Laboratory work with lectures and gross and microscopical demonstrations. The work covers inflammation, degeneration, regeneration, infectious diseases and tumors.

Required in the second trimester of the second year.

COURSE II. SYSTEMIC PATHOLOGY. Laboratory work with lectures on the pathology of various organ systems.

Required in the second and third trimesters of the second year. Total courses I and II, 307 hours.

Professors OPIE, MOORE, FREUND, FURTH and staff.

Course III. NEUROPATHOLOGY. The pathology of the nervous system is studied and altered structure and function correlated. Dr. STEVENSON.

Course IV. CLINICAL PATHOLOGICAL CONFERENCES. These conferences are held in cooperation with the staffs of the clinical departments of the Hospital and Medical College each week throughout the year. Observations concerning the clinical course and diagnosis of disease are correlated with changes found at autopsy.

ELECTIVE COURSES

A student may undertake the investigation of some problem in pathology or may pursue advanced courses in any of several fields, to be determined by consultation with the head of the department. Research or elective courses will ordinarily require the entire time of the student for a period of one to three months, and may be continued into the summer.

A clerkship of one month at Memorial Hospital, under the direction of Dr. James Ewing and Dr. Frank E. Adair, is open to senior students each month of the academic year. Instruction is offered in the pathology, diagnosis, and treatment of cancer and related diseases.

COURSE OPEN TO STUDENTS OF THE GRADUATE SCHOOL

Opportunity is afforded a limited number of students to engage in research under the direction of a member of the department. The student must devote his entire time to work in pathology and related subjects. By special arrangement this work may be pursued at the Memorial Hospital in cancer research.

PHARMACOLOGY

McKEEN CATTELL, Associate Professor of Pharmacology.

HARRY GOLD, Assistant Professor of Pharmacology.

JANET TRAVELL, Instructor in Pharmacology.

ADE T. MILHORAT, Instructor in Pharmacology.

WALTER MODELL, Assistant in Pharmacology.

Course 1. SYSTEMATIC PHARMACOLOGY. Laboratory work, demonstrations, conferences and lectures given during the first trimester of the second year. The experiments are designed to illustrate a wide range of pharmacologic actions, the more important drugs being considered with reference to their action on different structures. At a later conference, the laboratory data obtained by the class are assembled and discussed in relation to each other and to experiments reported in the literature. This course also includes elementary pharmacy and toxicology, with a consideration of crude drugs, practice in the making of pharmacopeial preparations, toxicological analysis, and prescription writing.

Course 2. **APPLIED PHARMACOLOGY.** This course is given during the third trimester of the second year, and is a continuation of Course 1. It is intended to fill a gap between experimental pharmacology and the clinical use of drugs, and deals with substances, the pharmacological action of which can best be demonstrated on human material. Emphasis will be placed on investigations dealing directly with the human subject in health and disease. This part of the course has been arranged in collaboration with the Department of Medicine and makes use of the available clinical material.

Course 3. **RESEARCH.** Arrangements will be made for individuals or groups to participate in original investigations with a view to learning the methods of pharmacological research. Special opportunities are afforded for work on muscle-nerve, autonomic nervous system and the circulation. Elective.

APPLIED PATHOLOGY AND BACTERIOLOGY

WILLIAM J. ELSEY, Professor of Applied Pathology and Bacteriology.

RALPH G. STILLMAN, Assistant Professor of Clinical Pathology.

GEORGE W. WHEELER, Assistant Professor of Applied Bacteriology.

MATTHEW WALZER, Lecturer in Allergy.

GUSTAV I. STEFFEN, Instructor in Applied Bacteriology.

RUTH THOMAS, Instructor in Applied Bacteriology.

ELIZABETH WATSON, Instructor in Applied Bacteriology.

The introductory required course is given in the third trimester of the second year. It consists of 117 hours of lectures and laboratory work. This time is devoted to the discussion of the theory, practice and application of methods for the examination of urine, blood, sputum, exudates, transudates, spinal fluid, gastric contents, and feces. The methods studied will include chemical, morphological, serological and animal inoculation methods which are of value as diagnostic procedures. There will be included discussion of the clinical significance of findings. In addition, certain allergic phenomena will be presented in lecture and demonstration and their clinical relationship discussed.

MEDICINE

EUGENE F. DU BOIS, Professor of Medicine.

LEWIS A. CONNER, Professor of Clinical Medicine.

WILLIAM R. WILLIAMS, Professor of Clinical Medicine.

WALTER L. NILES, Professor of Clinical Medicine.

MALCOLM GOODRIDGE, Professor of Clinical Medicine.

JOSEPH C. ROPER, Professor of Clinical Medicine.

RUSSELL L. CECIL, Professor of Clinical Medicine.

WILLIAM S. LADD, Professor of Clinical Medicine.

HENRY B. RICHARDSON, Associate Professor of Medicine.

HAROLD J. STEWART, Associate Professor of Medicine.

HENRY JAMES SPENCER, Associate Professor of Clinical Medicine.

CONNIE M. GUION, Associate Professor of Clinical Medicine.

HENRY BEEUWKES, Assistant Professor of Medicine.
PAUL REZNIKOFF, Assistant Professor of Medicine.
ADE T. MILHORAT, Assistant Professor of Medicine.
EPHRAIM SHORR, Assistant Professor of Medicine.
WENDELL J. STAINSBY, Assistant Professor of Medicine.
BRUCE WEBSTER, Assistant Professor of Medicine.
HAROLD G. WOLFF, Assistant Professor of Medicine.
HORACE S. BALDWIN, Assistant Professor of Clinical Medicine.
ROBERT A. COOKE, Assistant Professor of Clinical Medicine.
LLOYD F. CRAVER, Assistant Professor of Clinical Medicine.
EDWARD CUSSLER, Assistant Professor of Clinical Medicine.
CARY EGGLESTON, Assistant Professor of Clinical Medicine.
ARTHUR L. HOLLAND, Assistant Professor of Clinical Medicine.
ASA L. LINCOLN, Assistant Professor of Clinical Medicine.
EDGAR MAYER, Assistant Professor of Clinical Medicine.
HAROLD E. B. PARDEE, Assistant Professor of Clinical Medicine.
JOHN H. RICHARDS, Assistant Professor of Clinical Medicine.
EDWARD TOLSTOI, Assistant Professor of Clinical Medicine.
HARRY A. BRAY, Lecturer in Tuberculosis.
JOHN E. DEITRICK, Instructor in Medicine.
RICHARD G. HAHN, Instructor in Medicine.
EDITH E. NICHOLLS, Instructor in Medicine.
WILSON F. SMITH, JR., Instructor in Medicine.
ARTHUR J. ANTENUCCI, Instructor in Clinical Medicine.
ABRAHAM A. ANTOVILLE, Instructor in Clinical Medicine.
BENJAMIN I. ASHE, Instructor in Clinical Medicine.
JAMES R. BEARD, JR., Instructor in Clinical Medicine.
ZACHARIAS BERCOVITZ, Instructor in Clinical Medicine.
JAMES M. BETHEA, Instructor in Clinical Medicine.
GEORGE E. BINKLEY, Instructor in Clinical Medicine.
JACOB BUCKSTEIN, Instructor in Clinical Medicine.
EDWARD A. BURKHARDT, Instructor in Clinical Medicine.
LAILA COSTON-CONNOR, Instructor in Clinical Medicine.
EDWARD M. DODD, Instructor in Clinical Medicine.
JOHN C. DUNDEE, Instructor in Clinical Medicine.
A. WILBUR DURYEE, Instructor in Clinical Medicine.
FRANK M. FALCONER, Instructor in Clinical Medicine.
EMIL A. FALK, Instructor in Clinical Medicine.
BEN FRIEDMAN, Instructor in Clinical Medicine.
CONSTANCE FRIESS, Instructor in Clinical Medicine.
JOHN M. GIBBONS, Instructor in Clinical Medicine.
DAVID GLUSKER, Instructor in Clinical Medicine.
ARTHUR W. GRACE, Instructor in Clinical Medicine.
SIDNEY GREENBERG, Instructor in Clinical Medicine.
EDWIN T. HAUSER, Instructor in Clinical Medicine.
LOUIS A. HAUSER, Instructor in Clinical Medicine.
MILTON HELPERN, Instructor in Clinical Medicine.
EVELYN HOLT, Instructor in Clinical Medicine.

LESLIE A. HOMRICH, Instructor in Clinical Medicine.
 FREDERICK H. HOWARD, Instructor in Clinical Medicine.
 LEIF Y. JACOBSEN, Instructor in Clinical Medicine.
 SCOTT JOHNSON, Instructor in Clinical Medicine.
 MAURICE B. KAGAN, Instructor in Clinical Medicine.
 LEMOYNE COPELAND KELLY, Instructor in Clinical Medicine.
 ESTELLE KLEIBER, Instructor in Clinical Medicine.
 MILTON M. KRAMER, Instructor in Clinical Medicine.
 MICHAEL LAKE, Instructor in Clinical Medicine.
 EDGAR A. LAWRENCE, Instructor in Clinical Medicine.
 DOROTHEA LEMCKE, Instructor in Clinical Medicine.
 LEON I. LEVINE, Instructor in Clinical Medicine.
 ROBERT M. LINTZ, Instructor in Clinical Medicine.
 ROBERT O. LOEBEL, Instructor in Clinical Medicine.
 ISABEL LONDON, Instructor in Clinical Medicine.
 KIRBY MARTIN, Instructor in Clinical Medicine.
 A. PARKS MCCOMBS, Instructor in Clinical Medicine.
 FREDERICK H. MERRILL, Instructor in Clinical Medicine.
 L. MARY MOENCH, Instructor in Clinical Medicine.
 THEODORE W. OPPEL, Instructor in Clinical Medicine.
 DOUGLASS PALMER, Instructor in Clinical Medicine.
 NORMAN PAPAE, Instructor in Clinical Medicine.
 FRANK H. PETERS, Instructor in Clinical Medicine.
 NORMAN PLUMMER, Instructor in Clinical Medicine.
 HERBERT POLLACK, Instructor in Clinical Medicine.
 ARTHUR H. RAYNOLDS, Instructor in Clinical Medicine.
 ADA C. REID, Instructor in Clinical Medicine.
 SOPHIE A. ROOT, Instructor in Clinical Medicine.
 THERESA SCANLAN, Instructor in Clinical Medicine.
 AARON D. SPIELMAN, Instructor in Clinical Medicine.
 JOHN W. STICKNEY, Instructor in Clinical Medicine.
 WILLIAM D. STUBENBORD, Instructor in Clinical Medicine.
 LEONARD TARR, Instructor in Clinical Medicine.
 GURNEY TAYLOR, Instructor in Clinical Medicine.
 MARIAN TYNDALL, Instructor in Clinical Medicine.
 BYARD WILLIAMS, Instructor in Clinical Medicine.
 DAN H. WITT, Instructor in Clinical Medicine.
 IRVING S. WRIGHT, Instructor in Clinical Medicine.
 GEORGE J. YOUNG, Instructor in Clinical Medicine.
 SEYMOUR ZUCKER, Assistant in Medicine.
 HELOISE B. HOUGH, Assistant in Medicine.
 BYRD LEAVELL, Assistant in Medicine.
 WALSH McDERMOTT, Assistant in Medicine.
 ROBERT F. WATSON, Assistant in Medicine.
 CHARLES H. WHEELER, JR., Assistant in Medicine.
 JONATHAN F. MEAKINS, Assistant in Medicine.
 ERWIN E. PETERS, Assistant in Medicine.
 ARTHUR M. SUTHERLAND, Assistant in Medicine.

FREDERICK C. WEBER, JR., Assistant in Medicine.
ROBERT B. MCKITTRICK, Assistant in Clinical Medicine.
B. MILDRED EVANS, Fellow in Medicine.
JAMES D. HARDY, Fellow in Medicine.
RALPH E. OESTING, Fellow in Medicine.
CHARLES H. RICHARDS, Fellow in Medicine.
BENJAMIN F. STIMMEL, Fellow in Medicine.
BELA MITTELMANN, Research Fellow in Medicine.

NEUROLOGY

FOSTER KENNEDY, Professor of Clinical Neurology.
LEWIS D. STEVENSON, Associate Professor of Clinical Neurology.
LOUIS F. HAUSMAN, Associate Professor of Clinical Neurology.
AARON D. BELL, Instructor in Clinical Neurology.
PETER G. DENKER, Instructor in Clinical Neurology.
OLGA KNOFF, Instructor in Clinical Neurology.
MARY E. O'SULLIVAN, Instructor in Clinical Neurology.
JOSEPH W. OWEN, Instructor in Clinical Neurology.
HELEN J. ROGERS, Instructor in Clinical Neurology.
ALEXANDER WOLF, Instructor in Clinical Neurology.
HERMAN WORTIS, Instructor in Clinical Neurology.
S. BERNARD WORTIS, Instructor in Clinical Neurology.

DERMATOLOGY

HANS J. SCHWARTZ, Professor of Clinical Medicine.
WILLIAM M. ARCHER, Instructor in Clinical Medicine.
ANDREW J. GILMOUR, Instructor in Clinical Medicine.
THOMAS N. GRAHAM, Instructor in Clinical Medicine.
GEORGE M. LEWIS, Instructor in Clinical Medicine.
HENRY D. NILES, Instructor in Clinical Medicine.

GENERAL MEDICINE

Students begin their course in medicine in the second and third trimesters of the second year with a course in physical diagnosis under Dr. Stewart. They are introduced to this subject in the second trimester (two afternoons a week) by means of lectures, demonstrations and practical work on normal subjects and patients. In the third trimester they spend two mornings a week with the patients either on the wards or in the out-patient department. The course in neurology and neuropathology under Dr. Wolff and Dr. Stevenson is given on Tuesday and Friday from 9 to 12 during the last six weeks of the third trimester.

In each trimester of the third year, one third of the class will be clinical clerks in medicine in the wards of New York Hospital and the Second Medical Division of Bellevue Hospital. In the first eight weeks of the second trimester lectures, clinics, and practical demonstrations are given to the entire class in dermatology and syphilis.

The medical wards of New York Hospital under the supervision of Dr. Du Bois comprise four public pavilions totalling 109 beds. The service includes patients with diseases of the nervous system and of the skin. These are under the care of subdepartments which are organized for teaching and clinical research as well as the care of patients. They are therefore, analogous to independent departments of dermatology and neurology as seen in other hospitals. The other subdepartments are on the same basis. These are circulation, hematology, infections, metabolism, and syphilis. All of these have beds at their disposal although the majority of patients are assigned to the general service rather than at any one subdivision. An active pulmonary service is functioning in close cooperation with the surgical service and the pediatric service. Beds on the fourth floor are also used for the study and treatment of infectious diseases, including the exanthemata and syphilis. The syphilis service (Medicine L) is organized for the study of all phases of the disease as well as for the epidemiological control.

The third year clinical clerkship at the New York Hospital is under the direction of Dr. Du Bois and Dr. Richardson. The backbone of the student's training as a clinical clerk is believed to be his own experience with patients as amplified by reading and by contact with members of the hospital and teaching staff. He is given as much responsibility as is practical, namely, the recording, in the hospital records, of his own histories and laboratory examinations. These together with his physical examinations are supervised by the house staff. Additional teaching consists in daily teaching rounds with the visiting staff and more formal conferences once a week in which the clerks present cases for criticism and discussion. In these it is attempted to cover the more important fields of internal medicine. The work of the clerkships is supplemented by the amphitheatre clinics, pathological conferences and seminars which are held throughout the academic year.

Students may elect a clerkship at Bellevue Hospital under Dr. Lincoln. The methods of teaching are much the same as at New York Hospital and emphasis is placed on the firm grounding of students in the fundamental facts of the main subdivisions of internal medicine. In addition to clinical, laboratory, and autopsy facilities, textbooks, collateral reading, bedside clinics, and pathological conferences are employed. By these means the various systems of the body are studied with an ordered approach. The more important therapeutic measures are also discussed. Time is reserved to each student for the study of selected cases. This clerkship is offered during the summer to 8 students.

The senior students are divided into four groups each of which devotes one quarter of the college year to general medicine and the medical specialties. They spend the quarter under the direction of Dr. Reznikoff in the out-patient department of New York Hospital, where they are assigned in small groups to sections in general medicine and clinics devoted to special studies such as neurology, dermatology and syphilis, diabetes, gastro-intestinal diseases, diseases of the circulatory system,

diseases of the lungs, endocrine conditions, hematology, arthritis, and allergy. Other special departments of the clinic such as physiotherapy, dietotherapy and social service are open to the fourth year clerks. The practical work with the patients will be supplemented by seminars, clinics, lectures, demonstrations and weekly presentations of subjects by the students themselves. This clerkship can be taken during the summer months by a limited number of students. Modification of the course may be made to suit individual requirements.

Amphitheatre clinics will be held each week during the academic year. These will be given separately to third and fourth year students to conform to their respective stage of development. In place of some clinics, seminars will be offered to each class. These will be given to relatively small groups and the student will have a choice of instructors. The object is to supplement the clerkships by the presentation of the important phases of medicine, and particularly to stimulate individual reading and discussion. Clinical-pathological conferences organized by the Department of Pathology in conjunction with the clinical departments occur weekly throughout the year.

ELECTIVE COURSES

During the summer months students will be given the opportunity of taking their third year clerkship at New York Hospital and Bellevue Hospital, and fourth year clerkships at the New York Hospital. By so doing they may anticipate the work of the following year and spend the equivalent time in elective work.

Each month one-eighth of the fourth year class will be free for elective work. A variety of courses is available to these students. In many instances more than one course is offered on a single subject so that the student may make a choice of instructors. Opportunities will be given in the special clinics devoted to diseases of the circulatory system, lungs, metabolism, internal secretions, neurology, syphilis, dermatology, hematology, arthritis, allergy, and gastro-intestinal disorders. Electives in general medicine and its subdivisions are offered at Bellevue Hospital. Arrangements are made during the third and fourth years for special work in tuberculosis under Dr. Bray at the New York State Hospital for Incipient Tuberculosis. This includes elective courses from January 1 through June and internships during the summer.

Students who wish to do research, either in the wards or in the laboratories, or who have problems in which they are interested, will be given every encouragement within the limits of the time at their disposal.

As mentioned above, diseases of the nervous system are organized under the department of medicine and are included in the electives as well as in the medical clerkship. In addition the following is available:

NEUROLOGY: The Neurological Service at Bellevue Hospital under Dr. Foster Kennedy offers unusual opportunities for clinical study and special investigation. It consists of wards for adults for the study of

medical and surgical neurology. In addition, the laboratory for experimental neurology under the direction of Dr. Wortis, and the laboratory for neuropathology under the direction of Dr. Stevenson, are integrated with the medical and surgical work. All these services are available for the instruction of graduate and undergraduate students. The laboratory for experimental neurology is also available for instruction in research methods.

OBSTETRICS AND GYNECOLOGY

- HENRICUS J. STANDER, Professor of Obstetrics and Gynecology.
HERBERT F. TRAUT, Associate Professor of Obstetrics and Gynecology.
R. GORDON DOUGLAS, Associate Professor of Obstetrics and Gynecology.
JAMES A. HARRAR, Associate Professor of Clinical Obstetrics and Gynecology.
C. FREDERIC JELLINGHAUS, Assistant Professor of Clinical Obstetrics and Gynecology.
HERVEY C. WILLIAMSON, Assistant Professor of Clinical Obstetrics and Gynecology.
LUCIUS A. WING, Assistant Professor of Clinical Obstetrics and Gynecology.
JOHN F. McGRATH, Assistant Professor of Clinical Obstetrics and Gynecology.
BYRON H. GOFF, Assistant Professor of Clinical Obstetrics and Gynecology.
RALPH W. GAUSE, Instructor in Obstetrics and Gynecology.
KATHERINE KUDER, Instructor in Obstetrics and Gynecology.
ANDREW A. MARCHETTI, Instructor in Obstetrics and Gynecology.
JOHN B. PASTORE, Instructor in Obstetrics and Gynecology.
WILLIAM H. CARY, Instructor in Clinical Obstetrics and Gynecology.
OGDEN F. CONKEY, Instructor in Clinical Obstetrics and Gynecology.
EDWARD H. DENNEN, Instructor in Clinical Obstetrics and Gynecology.
LYNN L. FULKERSON, Instructor in Clinical Obstetrics and Gynecology.
ARTHUR V. GREELEY, Instructor in Clinical Obstetrics and Gynecology.
WILLIAM H. HAWKINS, Instructor in Clinical Obstetrics and Gynecology.
HOWARD S. McCANDLISH, Instructor in Clinical Obstetrics and Gynecology.
CHARLES M. McLANE, Instructor in Clinical Obstetrics and Gynecology.
JOSEPH N. NATHANSON, Instructor in Clinical Obstetrics and Gynecology.
MEYER ROSENTOHN, Instructor in Clinical Obstetrics and Gynecology.
FRANK R. SMITH, Instructor in Clinical Obstetrics and Gynecology.
KYLE B. STEELE, Instructor in Clinical Obstetrics and Gynecology.
HARMON J. BAILEY, Assistant in Obstetrics and Gynecology.
D. SCOTT BAYER, Assistant in Obstetrics and Gynecology.
LESTER BOSSERT, Assistant in Obstetrics and Gynecology.

CARL T. JAVERT, Assistant in Obstetrics and Gynecology.
 THOMAS D. TYSON, Assistant in Obstetrics and Gynecology.
 ROBERT L. CRAIG, Assistant in Clinical Obstetrics and Gynecology.
 OSCAR GLASSMAN, Assistant in Clinical Obstetrics and Gynecology.
 LUDWIG NEUGARTEN, Assistant in Clinical Obstetrics and Gynecology.
 JOHN A. O'REGAN, Assistant in Clinical Obstetrics and Gynecology.
 NELSON B. SACKETT, Assistant in Clinical Obstetrics and Gynecology.
 JACOB T. SHERMAN, Assistant in Clinical Obstetrics and Gynecology.
 CHARLES T. SNYDER, Assistant in Clinical Obstetrics and Gynecology.
 RAYMOND R. SQUIER, Assistant in Clinical Obstetrics and Gynecology.

GENERAL STATEMENT

FACILITIES: The Woman's Clinic of the New York Hospital provides 164 beds for teaching purposes in obstetrics and gynecology. The students are given practical instruction in the delivery and operating rooms, as well as on the wards, where they serve as clinical clerks. In addition they work in the out-patient department clinics of gynecology, obstetrics, cystoscopy, and sterility.

An outdoor delivery service is conducted in conjunction with the Woman's Clinic. The facilities of the John E. Berwind Free Maternity Clinic afford an unusual opportunity for students to conduct home deliveries under careful supervision by the attending and resident staff. There are approximately 75 deliveries a month on this service.

The total obstetrical service, hospital and home, cares for approximately 3700 confinements a year, while the gynecological section admits about 700 patients annually.

I. THIRD YEAR

COURSE 1. THE THEORY AND PRINCIPLES OF OBSTETRICS AND GYNECOLOGY. This course consists of lectures and demonstrations covering the anatomy and physiology of the female reproductive system; the physiology and pathology of pregnancy, labor, and puerperium; and the etiology, pathology, and diagnosis of the diseases of the pelvic structures.

Tuesday and Saturday, 12-1 P. M.; throughout the year, to the whole class. Professors STANDER, TRAUT, HARRAR, WILLIAMSON, DOUGLAS, and MARCHETTI.

COURSE 2. PRACTICAL INSTRUCTION. The courses offered are (a) palpation; (b) pelvic examination; (c) manikin exercises; (d) obstetrical and gynecological pathology; (e) obstetrical and gynecological bacteriology and isolation technic.

To one-third of the class, instruction will be given Monday, Wednesday, and Friday from 9-12, throughout one trimester.

COURSE 3. WARD ROUNDS. Monday, 10-11 A. M., and Friday, 9-10 A. M. Professor STANDER and staff.

Total hours, 162.

II. FOURTH YEAR

MAJOR PRACTICAL OBSTETRICS AND GYNECOLOGY. This course comprises practical work in obstetrics and gynecology and is the sequel to the theoretical instruction offered to the third year students. Each student will live in the Woman's Clinic and the Berwind Clinic for a period of two months, during which time he will act as a clinical assistant in the obstetrical and gynecological departments, hospital wards, and delivery and operating rooms. He will be provided with sleeping accommodations, but not with board.

The practical work includes the prenatal care of many patients, attending them in labor, their delivery, as well as following them throughout the course of the puerperium. Facilities are also provided for the student to examine gynecological patients, and to follow these patients through diagnostic and therapeutic procedures.

Two months' residence throughout the quarter. Minimum, 365 hours. Because of the nature of the service, night and holiday work is required.

ELECTIVE COURSES

PRACTICAL OBSTETRICS AND GYNECOLOGY. A certain number of students will be accepted for periods of one month to serve as assistants in the clinic.

PEDIATRICS

SAMUEL Z. LEVINE, Professor of Pediatrics.
 OSCAR M. SCHLOSS, Professor of Clinical Pediatrics.
 ARTHUR F. ANDERSON, Assistant Professor of Clinical Pediatrics.
 JESSE F. SAMMIS, Assistant Professor of Clinical Pediatrics.
 LOUIS C. SCHROEDER, Assistant Professor of Clinical Pediatrics.
 PHILIP M. STIMSON, Assistant Professor of Clinical Pediatrics
 MAY G. WILSON, Assistant Professor of Clinical Pediatrics.
 PARKER DOOLEY, Associate in Pediatrics.
 MILTON J. E. SENN, Associate in Pediatrics.
 ROBERT O. DuBOIS, Associate in Clinical Pediatrics.
 CARL H. SMITH, Associate in Clinical Pediatrics.
 JOHN E. FRANKLIN, Instructor in Pediatrics.
 CHARLES J. BAKER, Instructor in Pediatrics.
 HARRY H. GORDON, Instructor in Pediatrics.
 VERNON W. LIPPARD, Instructor in Pediatrics.
 WILLIAM M. SCHMIDT, Instructor in Pediatrics.
 JOHN A. WASHINGTON, Instructor in Pediatrics.
 HAROLD B. ADAMS, Instructor in Clinical Pediatrics.
 M. BERNARD BRAHDY, Instructor in Clinical Pediatrics.
 CLEMENT B. P. COBB, Instructor in Clinical Pediatrics.
 HELEN HARRINGTON, Instructor in Clinical Pediatrics.
 FREDERICK C. HUNT, Instructor in Clinical Pediatrics.
 HEDWIG KOENIG, Instructor in Clinical Pediatrics.
 MILTON I. LEVINE, Instructor in Clinical Pediatrics.
 CHARLES H. O'REGAN, Instructor in Clinical Pediatrics.

BENJAMIN McL. SPOCK, Instructor in Clinical Pediatrics.
 T. DURLAND VAN ORDEN, Instructor in Clinical Pediatrics.
 THOMAS E. WALDIE, Instructor in Clinical Pediatrics.
 LOUIS E. WEYMULLER, Instructor in Clinical Pediatrics.
 MARJORIE A. WHEATLEY, Instructor in Clinical Pediatrics.
 RICHARD H. GODWIN, Assistant in Pediatrics.
 EDWARD A. HAGMANN, Assistant in Pediatrics.
 COLIN MACRAE, Assistant in Pediatrics.
 THISTLE M. MCKEE, Assistant in Pediatrics.
 OWEN S. OGDEN, Assistant in Pediatrics.
 GLADYS J. FASHENA, Assistant in Clinical Pediatrics.
 ELEANOR MARPLES, Research Assistant in Pediatrics.

SECOND YEAR. During the last six weeks of the third trimester a course will be given on the principles of nutrition and the art of infant feeding. Total hours, 11.

THIRD YEAR. A clinical lecture once a week throughout the entire school year, presents cases illustrating diseases peculiar to early life. Groups of students are assigned to the wards where they are given instruction in diagnosis and treatment. Instruction in contagious diseases is given at the Willard Parker Hospital. Total hours, 132.

FOURTH YEAR. Groups of students are on duty in the out-patient department. Here they gain experience in history taking, physical examination, and treatment. Total hours, 68.

ELECTIVE COURSES

Two types of elective courses are given. In one, the students serve as clinical clerks on the pavilions and are on duty continuously for a period of one month. In the other, they serve in the general and all special clinics in the out-patient department for a period of one month.

PSYCHIATRY

OSKAR DIETHELM, Professor of Psychiatry.
 CLARENCE O. CHENEY, Professor of Clinical Psychiatry.
 PHYLLIS GREENACRE, Professor of Clinical Psychiatry.
 GEORGE W. HENRY, Associate Professor of Psychiatry.
 GERALD R. JAMEISON, Assistant Professor of Psychiatry.
 CARLYLE F. JACOBSEN, Assistant Professor of Psychology.
 SMILEY BLANTON, Assistant Professor of Clinical Psychiatry.
 CARL A. BINGER, Assistant Professor of Clinical Medicine.
 MABEL HUSCHKA, Instructor in Psychiatry.
 NORVELLE C. LAMAR, Instructor in Psychiatry.
 EDWIN E. McNIEL, Instructor in Psychiatry.
 LINCOLN RAHMAN, Instructor in Psychiatry.
 HERBERT S. RIPLEY, Instructor in Psychiatry.
 EDWARD B. ALLEN, Instructor in Clinical Psychiatry.
 VALER BARBU, Instructor in Clinical Psychiatry.
 WILLIAM H. DUNN, Instructor in Clinical Psychiatry.

B. MILDRED EVANS, Instructor in Clinical Psychiatry.
ELIZABETH KILPATRICK, Instructor in Clinical Psychiatry.
MICHAEL P. LONERGAN, Instructor in Clinical Psychiatry.
LESLIE E. LUEHRS, Instructor in Clinical Psychiatry.
C. DILLER RYAN, Instructor in Clinical Psychiatry.
GEORGE S. SPRAGUE, Instructor in Clinical Psychiatry.
HANS SYZ, Instructor in Clinical Psychiatry.
JAMES H. WALL, Instructor in Clinical Psychiatry.
EDWIN J. DOTY, Assistant in Psychiatry.
RUTH EMILIE JAEGER, Assistant in Psychiatry.
CUTHBERT H. ROGERSON, Assistant in Psychiatry.
RALPH R. HARLOW, Assistant in Clinical Psychiatry.
CHARLOTTE MUNN, Assistant in Clinical Psychiatry.
JOSEPH W. OWEN, Assistant in Clinical Psychiatry.
BETTINA WARBURG, Assistant in Clinical Psychiatry.
KATHERINE F. WOODWARD, Assistant in Clinical Psychiatry.
EMELINE P. HAYWARD, Assistant in Clinical Psychiatry.
ARTHUR L. BENTON, Assistant in Psychology.

The Department of Psychiatry offers instruction during each of the four years of the medical course. The science of the functions of the personality, psychobiology, is considered of fundamental importance as the groundwork for future clinical training. A course in psychopathology in the second year orients the student in personality disorders and in the methods for their examination and study. In the third year this preliminary training is utilized in the study of patients at the Payne Whitney Psychiatric Clinic. In the Out-Patient Department, during the fourth year, he participates in the study and treatment of the diverse problems presenting themselves in general psychiatric consulting practice. Through instruction and practical work at the Manhattan State Hospital, the student gains an understanding of a wide variety of mental disorders of various stages and especially of the organic type. The importance of personality issues in general medicine is taught on the medical wards of the New York Hospital and in the out-patient service of the Payne Whitney Psychiatric Clinic. Clinics are planned to unify these many activities and to offer in addition a broad understanding of treatment and investigation.

First Year. Psychobiology (19 hours)

This course acquaints the student with the functions of the personality. Through discussions and presentation of various tests he learns the basic principles and methods of psychobiology. A study of his own personality gives him an opportunity for methodical investigation and for constructive utilization of personality functions. (Dr. DIETHELM.)

Second Year. Introductory Psychiatry (33 hours)

In this course the various psychopathological phenomena are demonstrated in patients, and the student has an opportunity to study them himself by examination of patients. The student is instructed in the methods of examination, including history taking. (Dr. HENRY and Staff.)

Third Year. Courses in Psychiatry (33 hours)

In the In-Patient Department of the Payne Whitney Psychiatric Clinic the various reaction-types are presented and studied (Dr. HENRY, Dr. JAMEISON and Staff); on the medical wards of the New York Hospital personality issues in general medicine and cases where psychiatric conditions have developed are discussed. (Dr. HENRY and Dr. RYAN.)

A series of lectures, with case discussions, is given on the intellectual and emotional development in childhood, the importance of these factors and their deviations. (Dr. LAMAR and Staff.)

Fourth Year. Courses in Psychiatry (94 hours)

In the course in the Out-Patient Department of the Payne Whitney Psychiatric Clinic, each student is assigned to an instructor and takes part in the study and treatment of individual cases, both adults and children. (Dr. GREENACRE and Staff.) At the Manhattan State Hospital the students carry out examination of patients.

Clinics in which the clinical, investigative, and therapeutic aspects of cases presented are discussed, are given throughout the year on Wednesdays from twelve to one. (Dr. DIETHELM.)

Opportunities for elective work are provided at the Payne Whitney Psychiatric Clinic and at the Westchester Division of the New York Hospital, White Plains, New York.

SURGERY

GEORGE J. HEUER, Professor of Surgery.

JOSHUA E. SWEET, Professor of Experimental Surgery.

N. CHANDLER FOOT, Professor of Surgical Pathology.

CHARLES E. FARR, Professor of Clinical Surgery.

JOHN A. HARTWELL, Professor of Clinical Surgery.

HENRY H. M. LYLE, Professor of Clinical Surgery.

EUGENE H. POOL, Professor of Clinical Surgery.

POL N. CORYLLOS, Professor of Clinical Surgery.

WILLIAM DEW. ANDRUS, Associate Professor of Surgery.

WILLIAM F. MACFEE, Associate Professor of Clinical Surgery.

FRANK E. ADAIR, Assistant Professor of Clinical Surgery.

RALPH F. BOWERS, Assistant Professor of Clinical Surgery.

SEWARD ERDMAN, Assistant Professor of Clinical Surgery.

GUILFORD S. DUDLEY, Assistant Professor of Clinical Surgery.

JOHN C. A. GERSTER, Assistant Professor of Clinical Surgery.

GEORGE T. PACK, Assistant Professor of Clinical Surgery.

RUSSEL H. PATTERSON, Assistant Professor of Clinical Surgery.

MORRIS K. SMITH, Assistant Professor of Clinical Surgery.

JOHN A. VIETOR, Assistant Professor of Clinical Surgery.

BRONSON S. RAY, Associate in Surgery.

J. HERBERT CONWAY, Associate in Clinical Surgery.

FRANK GLENN, Associate in Clinical Surgery.

COURTNEY C. BISHOP, Instructor in Surgery.

WILLIAM A. COOPER, Instructor in Surgery.

CUYLER Y. HAUCH, Instructor in Surgery.

HERBERT BERGAMINI, Instructor in Clinical Surgery.
 JACOB BUCKSTEIN, Instructor in Clinical Radiology.
 PAUL A. DINEEN, Instructor in Clinical Surgery.
 WADE DULEY, Instructor in Clinical Surgery.
 JOHN H. GARLOCK, Instructor in Clinical Surgery.
 JOSEPH E. J. KING, Instructor in Clinical Surgery.
 FRANK J. MCGOWAN, Instructor in Clinical Surgery.
 EDWARD W. SAUNDERS, Instructor in Clinical Surgery, and Given
 Fellow in Surgical Research.
 RUFUS E. STETSON, Instructor in Clinical Surgery.
 JOHN E. SUTTON, JR., Instructor in Clinical Surgery.
 W. MORRIS WEEDEN, Instructor in Clinical Surgery.
 ROBERT A. WISE, Instructor in Clinical Surgery.
 FRANK C. YEOMANS, Instructor in Clinical Surgery.
 CHARLES G. CHILD, III, Assistant in Surgery.
 MARY COOPER, Assistant in Surgery.
 EDWARD W. DOUGLAS, Assistant in Surgery.
 JOHN H. ECKEL, Assistant in Surgery.
 SAMUEL W. MOORE, Assistant in Surgery.
 WILLIAM F. NICKEL, Assistant in Surgery.
 JOHN B. OGILVIE, Assistant in Surgery.
 FLORENCE WEST, Assistant in Surgery.
 WILLIAM R. SANDUSKY, Assistant in Surgery.
 LESTER C. HUESTED, Assistant in Surgery.
 EARL P. LASHER, JR., Assistant in Surgery.
 EDGAR C. PERSON, Assistant in Surgery.
 BENJAMIN F. HOOPES, Assistant in Surgery.
 HAROLD GENVERT, Assistant in Surgery.
 ROSE ANDRE, Assistant in Clinical Surgery.
 JOHN STAIGE DAVIS, JR., Assistant in Clinical Surgery.
 ROBERT K. FELTER, Assistant in Clinical Surgery.
 D. REES JENSEN, Assistant in Clinical Surgery.
 JOHN P. WEST, Assistant in Clinical Surgery.
 CRANSTON HOLMAN, Research Fellow in Surgery.

OPHTHALMOLOGY

BERNARD SAMUELS, Professor of Clinical Surgery.
 MILTON L. BERLINER, Assistant Professor of Clinical Surgery.
 CHARLES A. DRAKE, Instructor in Clinical Surgery.
 ELIZABETH M. MACNAUGHER, Assistant in Clinical Surgery.

ORTHOPEDIC SURGERY

IRVIN BALENSWEIG, Assistant Professor of Clinical Surgery.
 NELSON W. CORNELL, Assistant Professor of Clinical Surgery.
 KRISTIAN G. HANSSON, Instructor in Clinical Surgery.
 PRESTON A. WADE, Instructor in Clinical Surgery.
 WILLIAM A. WALKER, Instructor in Clinical Surgery.

OTOLARYNGOLOGY

ARTHUR PALMER, Assistant Professor of Clinical Surgery; Acting Head,
 Department of Otolaryngology.

GERVAIS W. McAULIFFE, Assistant Professor of Clinical Surgery.
JACOB APPLEBAUM, Instructor in Clinical Surgery.
EMMETT C. FITCH, Instructor in Clinical Surgery.
THOMAS J. GARRICK, Instructor in Clinical Surgery.
S. FARRAR KELLEY, Instructor in Clinical Surgery.
JAMES O. MACDONALD, Instructor in Clinical Surgery.
EDGAR M. POPE, Instructor in Clinical Surgery.
WILLIAM H. AYRES, Assistant in Clinical Surgery.
ANNE M. BELCHER, Assistant in Clinical Surgery.
HERBERT GRAEBNER, Assistant in Clinical Surgery.
LEOPOLD MEHLER, Assistant in Clinical Surgery.
FERNAND VISTREICH, Assistant in Clinical Surgery.

UROLOGY

ALEXANDER R. STEVENS, Professor of Clinical Surgery.
HOWARD S. JECK, Assistant Professor of Clinical Surgery.
RUSSELL S. FERGUSON, Assistant Professor of Clinical Surgery.
GUSTAVUS A. HUMPHREYS, Instructor in Surgery.
BENJAMIN S. BARRINGER, Instructor in Clinical Surgery.
ARCHIE L. DEAN, Jr., Instructor in Clinical Surgery.
JOHN W. DRAPER, Instructor in Clinical Surgery.
ROBERT S. HOTCHKISS, Instructor in Clinical Surgery.
ANNE E. KUHNER, Instructor in Clinical Surgery.
ALLISTER M. McLELLAN, Instructor in Clinical Surgery.
WENDELL J. WASHBURN, Instructor in Clinical Surgery.
HARMON TRUAX, Assistant in Surgery.

GENERAL SURGERY

I. THIRD YEAR. The teaching of surgery begins in the first trimester of the third year during which time one third of the class is assigned for work as clinical clerks in surgery, including urology. Throughout this period the student gains experience in history taking, physical examination, and routine laboratory examination, and is brought into contact with patients with general surgical, urological, orthopedic, ophthalmological, and otolaryngological conditions. The routine teaching consists of ward visits in general surgery and the surgical specialties, together with assigned reading and conferences. During this period surgical pathology is taught by a series of demonstrations of gross and microscopic preparations, and conferences in which the current material from surgical cases is made the basis for the discussion of various types of lesions and their pathological and surgical significance. Also during this trimester the group attends a course illustrating the principles of operative surgery. This consists of a series of operations carried out by the students upon living animals, emphasizing surgical cleanliness, aseptic technic, the control of hemorrhage, the healing of wounds, anesthesia, etc. Total hours, 335.

In the ward teaching the facilities of the Second Surgical Division of Bellevue Hospital, St. Luke's, Memorial, and other special hospitals are available in addition to those of the New York Hospital.

II. **FOURTH YEAR.** Each student spends one quarter in the out-patient department of the surgical service and the allied specialties. The morning hours are devoted to the surgical clinic where the student gains experience in the diagnosis of general surgical and orthopedic conditions in ambulatory patients as well as in the handling of fractures and in the diagnosis and treatment of minor surgical cases of all sorts. He also has the opportunity to follow the results of operations performed in the hospital as the patients return for follow up visits. The afternoon hours are devoted to the special clinics of urology, ophthalmology and otolaryngology where the student learns to use the diagnostic technics of these specialties and observes a wide variety of disease pictures.

The student is also assigned to the operating floor of the hospital for a period of two weeks and is given intensive instruction in anesthesia, and throughout the quarter is expected to follow in the wards those patients admitted from the out-patient department.

The routine teaching consists of conferences, clinics, and assigned reading.

A surgical clinic is held one day a week at the noon hour for the students of the third and fourth years. Total hours, 288.

OPHTHALMOLOGY

During the third trimester of the second year the entire class is given laboratory instruction in the microscopy of the eye by DR. SAMUELS. In addition to normal histology, the pathology of such important diseases as uveitis, glaucoma, intra-ocular tumors, tuberculosis, injuries and simple ophthalmia are covered. During the first quarter of the third year also the entire class receives a series of formal exercises in ophthalmology as a further introduction to their clinical work supplemented by exercises on the wards and in the out-patient department.

During the fourth year the student is assigned for a period of time to the ophthalmological out-patient department and in addition has the opportunity of taking further work in this subject during his elective period.

ORTHOPEDIC SURGERY

During the third year there are a number of formal exercises in this subject, which serve as an introduction to the clinical work. These are supplemented by the presentation of interesting cases on the wards and in the out-patient department during the remainder of the third and fourth years.

OTOLARYNGOLOGY

In the third year clinical lectures illustrated by the presentation of cases are given to the entire class. Anatomy of the head is reviewed and instruction in the examination of the ear, nose and throat is given. The subjects of bronchoscopy and rhinoplasty are discussed.

During the fourth year students are assigned in sections for a period to the otolaryngological out-patients and have the opportunity to study cases on the pavilion as well. During this period special topics are presented to the section by various members of the teaching staff.

During the fourth year opportunity to spend further time on this subject during the elective term is offered.

UROLOGY

Teaching of urology is carried out by means of assignment of students during their clinical clerkship in the third year to urological cases on the wards and on one morning a week there is a conference and clinical demonstration of patients suffering from various urological conditions.

In the fourth year the student is assigned for a period to the urological out-patient department, and has further opportunity to pursue this subject during the elective period.

ELECTIVE COURSES

Courses are offered in advanced general surgery, surgical pathology, experimental surgery, neuro-surgery, thoracic surgery, and in the specialties of surgery: urology, orthopedics, ophthalmology and otolaryngology. Elective work combined with medicine is also offered in special clinics in the out-patient department. More detailed information regarding these electives may be had by consulting the head of the surgical department.

COURSE OFFERED TO GRADUATE STUDENTS

A graduate course in surgery based upon the resident system is offered to a limited number of physicians who are graduates of approved medical schools and who have completed one year's internship or its equivalent in an approved hospital. Detailed information regarding this course will be furnished on request by the head of the surgical department.

PUBLIC HEALTH AND PREVENTIVE MEDICINE

WILSON G. SMILLIE, Professor of Public Health and Preventive Medicine.

JOHN C. TORREY, Professor of Epidemiology.

MORTON C. KAHN, Associate Professor of Public Health and Preventive Medicine.

WALTER C. KLOTZ, Assistant Professor of Public Health and Preventive Medicine.

RALPH W. NAUSS, Instructor in Public Health and Preventive Medicine.

THOMAS T. MACKIE, Research Associate in Public Health and Preventive Medicine.

ELIZABETH MONTU, Research Assistant in Public Health and Preventive Medicine.

This course deals with the fundamental factors concerned in the origin, increase and control of communicable and non-communicable diseases. It is intended to familiarize the student with the opportunities for disease prevention through public health organizations and in private practice, both in urban and rural communities. Among the subjects discussed in a series of lectures are environmental control,

sources and modes of infection, specific and non-specific prophylaxis, vital statistics and public health administration. Many of these subjects are illustrated by laboratory and field demonstrations. 84 hours.

In the fourth year the opportunities for the application of preventive medicine by medical practitioners are discussed in a series of lectures. 32 hours.

Instruction in the clinical aspects of preventive medicine is also given in connection with the courses in medicine, surgery, obstetrics, pediatrics, and the specialties.

ELECTIVE COURSES

Course 1. **EPIDEMIOLOGY.** A study of the factors and principles concerned in the origin, spread and abatement of the more important communicable diseases as illustrated by past and, when possible, current outbreaks. Collection of epidemiological data and statistical analyses. Conferences. Hours to be arranged.

Course 2. **MEDICAL ZOOLOGY AND PARASITOLOGY.** This course is intended to supplement and extend the required work in this field. Diagnosis, life histories of parasites and their vectors, and control measures are considered. Laboratory work and conferences. Hours to be arranged.

RADIOLOGY

HARRY M. IMBODEN, Professor of Clinical Radiology.

JOHN R. CARTY, Associate Professor of Radiology, (Executive Officer).

SYDNEY WEINTRAUB, Assistant Professor of Clinical Radiology.

PAUL S. HENSHAW, Instructor in Radiology.

ALLAN TUGGLE, Instructor in Radiology.

ALFRED F. HOCKER, Instructor in Clinical Radiology.

FRIEDRICH G. KAUTZ, Instructor in Clinical Radiology.

E. FORREST MERRILL, Instructor in Clinical Radiology.

IRVING SCHWARTZ, Instructor in Clinical Radiology.

STEPHEN WHITE, Instructor in Clinical Radiology.

LAWSON E. MILLER, Assistant in Radiology.

JOE E. RUDE, Assistant in Radiology.

The teaching consists of didactic lectures and section work in conjunction with clinical clerkships in medicine, surgery, pediatrics, gynecology and obstetrics. The lectures emphasize the fundamental principles of diagnosis, X-ray and radium therapy. Sufficient fundamental physics is covered to make these principles intelligible. The subject is covered by a systematic review. In addition to X-ray diagnosis the use of radium and X-ray therapy for malignant conditions is given attention. The use of X-ray therapy in treatment of inflammatory and other miscellaneous pathological processes is also covered.

The lectures are given during the third year to the class as a whole. Emphasis is placed on the indications and limitations of the methods and how they should be applied to the best advantage of the patient.

The section teaching is conducted in the third year with small groups. During each hour a subject is covered. Normal radiographs

of the part under discussion are shown followed by those illustrating typical lesions. Each student is encouraged to present radiographs of cases under their study on the pavilions having diseases which at the moment are under consideration. Frequent informal quizzes are given and the student may be called upon to write a report on an assigned radiograph.

Instruction in X-ray and radium therapy is conducted along similar lines. The student is given specific and hypothetical cases where X-ray and radium therapy might be employed. He is asked what results may be expected. The indications and contraindications for the use of X-ray and radium therapy are discussed. During the section work there will be a certain amount of "required reading". This consists of the study of normal and typical radiographs, and a museum has been organized specifically for this purpose. The Museum has a wide assortment of various pathological material and is constantly being enlarged. There is a series of normals of the various anatomical regions constantly available on illuminators for ready reference. The Museum is open at all hours for study.

Elective courses are offered in the fourth year in most phases of diagnosis and therapy. They are arranged in so far as is possible to suit the wishes of the individual student.

Summary of Hours, Third Year

Didactic lectures.....	8 hours
Section work:	
Medicine.....	10 hours
Surgery.....	10 hours
Obstetrics and Gynecology.....	3 hours
Pediatrics.....	3 hours
	26 hours

LEGAL MEDICINE

MILTON HELPERN, Instructor in Legal Medicine

An elective course in Legal Medicine is scheduled during the third quarter of the fourth year and covers the following topics: the obligations and rights of physicians; relation of the physician to governmental agencies; functions of the office of medical examiner and of coroner; investigation and determination of the cause of sudden, suspicious and violent deaths; the medicolegal necropsy; identification, signs of death, changes in the body after death; sudden natural death; relationship of disease and trauma; suicidal, accidental and homicidal violent deaths; blunt force injuries, stab and bullet wounds, traumatic asphyxia, rape, abortion, infanticide; toxicology, especially the indications of poisoning and the selection of organs for chemical analysis; examination of blood stains, seminal stains and hair, forensic applications of blood grouping; occupational injuries and diseases.

The course consists of a series of 12 lectures illustrated with material derived from cases investigated by the office of the Chief Medical Examiner in the Borough of Manhattan.

A second elective course limited to small groups of students is given for periods of approximately four weeks throughout the school year and affords the student an opportunity to study the above mentioned topics at first hand. This course is conducted at the City Mortuary, Bellevue Hospital, where the numerous and varied autopsy and laboratory investigations of the office of the Chief Medical Examiner are carried out. There will also be an opportunity to follow some of the cases into the criminal and civil courts where the method of giving testimony can be observed.

NEOPLASTIC DISEASE

The Memorial Hospital offers a four-week elective course on the neoplastic diseases to members of the fourth year class. This course consists of approximately 140 hours devoted to a study of the new cases, their diagnosis and treatment. About 40 hours are spent in the pathological laboratory, studying the gross and microscopic pathology of tumors, particularly as relates to tumor groups. The student also has an excellent opportunity to observe the effects of treatment by surgery, x-rays and radium. The course is closely integrated, so that the student may study many processes of tumor growth and behavior.

MILITARY SCIENCE AND TACTICS

WILLIAM C. MUNLY, Professor of Military Science and Tactics.

This elective course in Military Science and Tactics is given by an Officer of the Medical Corps of the Army, detailed by the Surgeon General. It is a progressive course of four years, of 39 hours' instruction per year.

Any male, physically fit citizen is eligible to take the course. No uniforms are worn and no obligations are incurred, except to complete the course if started. A six weeks' camp at Carlisle, Pa., is held after the second or third year, as elected. During the last two years the student is paid by the government. He is also paid for the camp attendance and is provided his transportation from the University to Carlisle and return.

Upon receiving his degree in Medicine the graduate of this Military Course will be given a commission in the Medical Officers Reserve Corps should he desire to accept the same.

This course is designed to supplement the regular medical curriculum and to give the student an elementary knowledge of Military Science and Tactics. The first year is devoted to the history of military medicine, principles of military science, our system of government and the military policies of the same; the second year to tactical studies, projectiles and war wounds, first aid and evacuation; the third year to hygiene of mass bodies, including control of communicable diseases, disposal of wastes, water purification and camp sanitation; the fourth year to administration and technical organization of hospitals, together with the principles of hospital construction and repair.

FIRST YEAR SCHEDULE

FIRST TRIMESTER

SEPT. 28-DEC. 23

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
9-10	Anatomy	Anatomy	Anatomy	Anatomy	Anatomy	Anatomy	
10-11							
11-12							
12-1							
1-2		Biochemistry		Biochemistry	Biochemistry		
2-3	Histology	Histology			Biochemistry		Histology
3-4							
4-5							

SECOND TRIMESTER

JAN. 3-MARCH 19

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Histology	Anatomy	Anatomy** Histology**	Anatomy	Histology	Anatomy
10-11						
11-12						
12-1		Biochemistry		Biochemistry		Biochemistry
1-2	Anatomy	Biochemistry	(Spec. Lect.)	Biochemistry	Anatomy	
2-3						
3-4						
4-5						

**Approximately 7 sessions Anatomy and 4 Histology.

THIRD TRIMESTER

MARCH 28-JUNE 4

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Biochemistry	Neuro- Anatomy	Biochemistry	Psychobiol.	Physiology	Neuro- Anatomy
10-11				Neuro- Anatomy		
11-12				Physiology		
12-1		Biochemistry				Physiology
1-2	Psychobiology	Physiology	(Spec. Lect.)	Physiology	Physiology	
2-3						
3-4						
4-5						

***March 28-April 11, inc.

*Elective.

() When scheduled.

SECOND YEAR SCHEDULE

FIRST TRIMESTER

SEPT. 28-DEC. 23

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday			
9-10	Pharmacology	Physiology	Physiology	Pharmacology	Physiology	Physiology			
10-11			Bacteriology		Pharmacology		Psychobiology*		
11-12						Bacteriology		Pharmacology	Psychobiology*
12-1									
1-2	Bacteriology	Pharmacology		Psychobiology*					
2-3			Bacteriology		Pharmacology		Psychobiology*		
3-4						Bacteriology		Pharmacology	Psychobiology*
4-5									
	Bacteriology	Pharmacology		Psychobiology*					
			Bacteriology		Pharmacology		Psychobiology*		
						Bacteriology		Pharmacology	Psychobiology*
	Bacteriology	Pharmacology		Psychobiology*					
			Bacteriology		Pharmacology		Psychobiology*		
						Bacteriology		Pharmacology	Psychobiology*
	Bacteriology	Pharmacology		Psychobiology*					
			Bacteriology		Pharmacology		Psychobiology*		
						Bacteriology		Pharmacology	Psychobiology*
	Bacteriology	Pharmacology		Psychobiology*					
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			Bacteriology		Pharmacology		Psychobiology*		
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	Bacteriology	Pharmacology		Psychobiology*					
			Bacteriology		Pharmacology		Psychobiology*		
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	Bacteriology	Pharmacology		Psychobiology*					
			Bacteriology		Pharmacology		Psychobiology*		
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	Bacteriology	Pharmacology		Psychobiology*					
			Bacteriology		Pharmacology		Psychobiology*		
						Bacteriology		Pharmacology	Psychobiology*
	Bacteriology	Pharmacology		Psychobiology*					
			Bacteriology		Pharmacology		Psychobiology*		
						Bacteriology		Pharmacology	Psychobiology*
	Bacteriology	Pharmacology		Psychobiology*					
			Bacteriology		Pharmacology		Psychobiology*		
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	Bacteriology	Pharmacology		Psychobiology*					
			Bacteriology		Pharmacology		Psychobiology*		
						Bacteriology		Pharmacology	Psychobiology*
	Bacteriology	Pharmacology		Psychobiology*					
			Bacteriology		Pharmacology		Psychobiology*		
						Bacteriology		Pharmacology	Psychobiology*
	Bacteriology	Pharmacology		Psychobiology*					
			Bacteriology		Pharmacology		Psychobiology*		
						Bacteriology		Pharmacology	Psychobiology*
	Bacteriology	Pharmacology		Psychobiology*					
			Bacteriology		Pharmacology		Psychobiology*		
						Bacteriology		Pharmacology	Psychobiology*
	Bacteriology	Pharmacology		Psychobiology*					
			Bacteriology		Pharmacology		Psychobiology*		
						Bacteriology		Pharmacology	

*Elective for students who have not had the work in first year.

SECOND TRIMESTER

JAN. 3-MARCH 19

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Pathology	Pathology	Pathology	Pathology	Pathology	Pathology
10-11						
11-12						
12-1						
1-2	Pathology	Physical Diagnosis	(Spec. Lect.)	Physical Diagnosis	Psychiatry	
2-3						
3-4						
4-5						

THIRD TRIMESTER

MARCH 28-JUNE 4

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Physical Diagnosis Sec. A Top Anat. Sec. B	Pathology* Neurology** Neuropathology** Ped.**	Physical Diagnosis Sec. B. Ap. Path. A	Physical Diagnosis Sec. A. Ap. Path. B	Physical Diagnosis Sec. B. Top. Anat. A.	Pathology* Neurology** Neuropathology** Ped.**
10-11						
11-12						
12-1	Applied Pathology and Bacteriology	Applied Pathology and Bacteriology	Applied Pharmacology (Spec. Lect.)	Applied Pathology and Bacteriology	Applied Pharmacology and Bacteriology	
1-2						
2-3						
3-4						
4-5	Ophthalmology	Bacteriology	(Spec. Lect.)		Ophthal. Path.	

*Pathology: March 28-April 27.

**Neurology, Neuropathology, and Pediatrics April 27-June 4.

THIRD YEAR SCHEDULE

TRIMESTER SCHEDULE

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Group A: Medicine (1); Surgery (2); Obstet., Ped., Psych. (3) Group B: Surgery (1); Obstet., Ped., Psych. (2); Medicine (3) Group C: Obstet., Ped., Psych. (1); Medicine (2); Surgery (3)					
10-11						
11-12						
12-1	Pb. Health	Ob. & Gyn.	Pediatrics	Medicine	Surgery	Ob. & Gyn.
2-3	C.P.C.** 3:30-5:00		Dermatology*	Pb. Health* Otolaryngol.* Radiology*		
3-4						
4-5			(Spec. Lect.)			

**Regular section work takes precedence over C.P.C.

() When scheduled.

*Public Health 2-5 { September 28-December 23 (Thursdays).
May 2-June 4.

*Dermatology 2-4, January 3-February 26 (Wednesdays).

*Radiology 4-5, January 3-February 26 (Thursdays).

*Otolaryngology 2-4, February 28-April 30 (Thursdays).

DETAILED SCHEDULE: OBSTETRICS, PEDIATRICS, PSYCHIATRY

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Obstetrics and Gynecology	Pediatrics	Obstetrics and Gynecology	Pediatrics	Obstetrics and Gynecology	
10-11						
11-12						
12-1	Public Health	Ob. & Gyn.	Pediatrics	Medicine	Surgery	Ob. & Gyn.
2-3	C.P.C. 3:30-5:00	Group 1 Pediatrics		Specialties	Group 1 Psychiatry	
3-4						
4-5		Group 2 Psychiatry	(Spec. Lect.)		Group 2 Pediatrics	

FOURTH YEAR SCHEDULE

QUARTER SCHEDULE

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Group A: Surgery (1); Ped., Psych., Elect. (2); Medicine (3); Ob. & Gyn. (4) Group B: Medicine (1); Ob. & Gyn. (2); Surgery (3); Ped., Psych. Elect. (4) Group C: Ped., Psych., Elect. (1); Medicine (2); Ob. & Gyn. (3); Surgery (4) Group D: Ob. & Gyn. (1); Surgery (2); Ped., Psych., Elect. (3); Medicine (4)					
10-11						
11-12						
12-1	Medicine	Legal Med.**	Psychiatry	Medicine	Surgery	Public Health
2-3						
3-4						
4-5	C.P.C.*		(Spec. Lect.)			

*Regular section work takes precedence over C.P.C.

**From March 7 to June 4.

() When scheduled. Regular section work takes precedence.

DETAILED SCHEDULE: PEDIATRICS AND PSYCHIATRY

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Pediatrics		Psychiatry	Pediatrics		
10-11						
11-12						
12-1	Medicine	Legal Med.**	Psychiatry	Medicine	Surgery	Pb. Health
2-3	Psychiatry		Pediatrics (Spec. Lect.)	Psychiatry		
3-4						
4-5						

**From March 7 to June 4.

GRADUATE STUDENTS AND SPECIAL STUDENTS

Cornell University Medical College is primarily concerned with preparing young men and women for the degree of Doctor of Medicine, and does not choose to emphasize work for degrees of other character. There are, however, from time to time unusual opportunities for advanced work other than that required for the degree of Doctor of Medicine. This work may be special work leading to no degree, inviting those singularly fitted for such studies, or work presented by the curriculum of the Graduate School.

To avoid misunderstanding in the use of the terms *Graduate School*, *Graduate Students*, *Post-Graduate Students*, and *Special Students*, the following statement is made:

Students not pursuing the regular courses leading to the degree of Doctor of Medicine may be—

I. STUDENTS OF THE GRADUATE SCHOOL. Students in Cornell University Graduate School may be of two classes: (a) those registered for an advanced degree and (b) those not registered for an advanced degree.

II. SPECIAL STUDENTS. All students *not registered in Cornell University Graduate School and not registered for the M.D. degree* are SPECIAL STUDENTS. These are SPECIAL STUDENTS in the true sense of the word and must be especially qualified in preparation, ability, and objective in order to receive any consideration. They may or may not be graduate students in the sense of having completed work for a collegiate degree. They are admitted *only by the consent of the head of the department* and must be registered in the Administrative Offices of the medical college and must pay their fees at the business office before being admitted to lectures or laboratory periods. They are required to carry and show on demand of the authorities a permit of attendance.

Although Cornell University Medical College intends to develop special opportunities for advanced work of high quality in the medical sciences and in the clinical fields, it does not at present offer work corresponding to that usually described as *clinical post-graduate work*. Work offered to post-graduate students at present will demand a prolonged period of residence as does other graduate work. Such work is not credited toward an advanced degree unless the student be regularly registered for such a degree in the Graduate School of Cornell University and unless the work in question is in the curriculum of the Graduate School. Usually students admitted for post-graduate work of this type will hold either the M.D. or Ph.D. degree and in addition will have had several years of practical work. Unless they hold positions on the resident staff, they must register at the Administrative Offices, pay the requisite fees, and receive a permit of attendance. For fees see courses listed under departmental announcements.

THE GRADUATE SCHOOL

Those contemplating entering Cornell University Graduate School should refer to the Announcement of the Graduate School, which can be obtained by addressing the Dean of the Graduate School at Ithaca, N. Y.

The Graduate School has exclusive control of all graduate work carried on in the University. Certain professors in the pre-clinical departments of the Cornell University Medical College in New York City offer graduate instruction as an integral part of the Graduate School of Cornell University. Properly qualified students may accordingly enter upon graduate work in New York City under the jurisdiction of professors in these departments and may become candidates for advanced degrees under the same conditions as apply to students in other divisions of the Graduate School.

To be admitted to the Graduate School, an applicant (1) must have received his baccalaureate degree from a college or university of recognized standing, or have done work equivalent to that required for such degree; (2) as judged by his previous scholastic record, or otherwise, must show promise of ability satisfactorily to pursue advanced study and research; and (3) must have had adequate previous preparation in his chosen field of study to enter at once upon graduate study in that field. An applicant who is not a graduate of Cornell University must submit complete official transcripts of all previous college studies. Applications for admission, made on the proper forms, should be filed at the earliest possible date and, ordinarily, not later than August 10 and January 25 for entrance to the first and second terms, respectively; and not later than June 25 for entrance to the summer session (at Ithaca). Forms for applying for admission may be obtained by writing to the Graduate School, Cornell University, Ithaca, New York. The formal application for admission may be filed either in the Office of the Dean of Cornell University Medical College, New York, or in the Office of the Dean of the Graduate School, Cornell University, Ithaca, N. Y.

For details in regard to the selection of major and minor subjects, special committees in charge of the work of each candidate for an advanced degree, fees, time required, thesis, and special conditions to be fulfilled by each candidate for an advanced degree, reference should be made to the Announcement of the Graduate School.

Graduate students resident in New York City, and working under the direction of members of the faculty connected with Cornell University Medical College are students in the Graduate School of Cornell University, and as candidates for an advanced degree are subject to all the regulations laid down by the Faculty of the Graduate School. The members of the medical college who give instruction to graduate students constitute Group F of the Faculty of the Graduate School. Professor C. V. Morrill, Chairman of Group F, will advise with applicants for admission to the Graduate School at the medical college in New York.

GRADUATE SCHOOL

FEES

MATRICULATION FEE	\$10
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This fee is required of every student upon entrance into Cornell University. It must be paid at the time of registration.

TUITION FEE	\$150
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This fee for the academic year is to be paid by all students registered in the Graduate School.

ADMINISTRATION FEE	\$25
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This fee is to be paid by all students registered in the Graduate School.

BREAKAGE FEE.	\$10
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This deposit is to be made at the beginning of each academic year, and will be returned, less the amount charged for breakage or loss at the end of the year.

GRADUATION FEE	\$20
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This fee is required at least ten days before the degree is to be conferred, of every candidate for an advanced degree. The fee will be returned if the degree is not conferred.

THESIS FEE	\$10
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This fee is required at least ten days before the degree is to be conferred, of every candidate for the Ph.D. degree.

SPECIAL STUDENTS

FEES

MATRICULATION FEE	\$10
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ADMINISTRATION FEE	\$5
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Tuition fees vary depending upon the type of work taken. A breakage fee may be required.

THE FACULTY OF MEDICINE AT ITHACA

EDMUND EZRA DAY, S.B., A.M., Ph.D., LL.D., President.

LIVINGSTON FARRAND, A.B., M.D., L.H.D., LL.D., President Emeritus.

ABRAM TUCKER KERR, B.S., M.D., Secretary of the Medical College at Ithaca; Professor of Anatomy.

SIMON HENRY GAGE, B.S., Professor of Histology and Embryology, Emeritus.

BENJAMIN FREEMAN KINGSBURY, Ph.D., M.D., Professor of Histology and Embryology.

JAMES BATCHELLER SUMNER, A.M., Ph.D., Professor of Biochemistry.

HOWARD SCOTT LIDDELL, A.M., Ph.D., Professor of Physiology.

JAMES WENCELAS PAPEZ, A.B., M.D., Professor of Anatomy.

HOWARD BERNHARDT ADELMANN, A.M., Ph.D., Professor of Histology and Embryology.

JOSEPH ALMA DYE, A.B., Ph.D., Assistant Professor of Physiology.

OSCAR D. ANDERSON, B.S., Ph.D., Acting Assistant Professor of Physiology.

STACEY F. HOWELL, A.B., M.S., Ph.D., Instructor in Biochemistry.

ALEXANDER L. DOUNCE, A.B., Ph.D., Instructor in Biochemistry.

R. WAYNE RUNDLES, A.B., Instructor in Anatomy.

CLARENCE E. KLAPPER, A.B., A.M., Assistant in Histology and Embryology.

PARK D. KELLER, B.S., Assistant in Anatomy.

M. NOBLE BATES, A.B., M.A., Assistant in Histology and Embryology.

WARNER S. HAMMOND, A.B., Assistant in Histology and Embryology.

MARGARET HARLAND, B.A., M.A., Assistant in Histology and Embryology.

E. LAWRENCE HOUSE, B.S., Assistant in Histology and Embryology.

_____, Assistant in Anatomy.

GEORGE H. MAUGHAN, A.M., Ph.D., Research Assistant in Physiology.

RICHARD PARMENTER, C. E., Ph.D., Research Assistant in Physiology.

GEORGE F. SUTHERLAND, A.B., M.D., Research Assistant in Physiology.

INSTRUCTION AT ITHACA DURING THE FIRST YEAR OF THE COURSE

CALENDAR FOR ITHACA, 1937-38

FIRST TERM

- Sept. 27 Monday—Registration and assignment of new students.
- Sept. 28 Tuesday—Registration and assignment of old students.
- Sept. 30 Thursday—Instruction begins.
- Oct. 21 Thursday—Last day for payment of tuition for first term.
- Nov. 24 Wednesday—Instruction ends at 6 P. M.
- Nov. 29 Monday—Instruction resumed at 8 A. M.
- Dec. 18 Saturday—Instruction ends at 1 P. M. (Christmas recess).
- Jan. 3 Monday—Instruction resumed at 8 A. M.
- Jan. 11 Tuesday—Founder's Day.
- Jan. 31 Monday—Term examinations begin.
- Feb. 9 Wednesday—Term examinations end; first term closes.
- Feb. 10 Thursday—Holiday.

SECOND TERM

- Feb. 11 Friday—Registration of all students for the second term.
- Feb. 14 Monday—Instruction begins at 8 A. M.
- Mar. 7 Monday—Last day for payment of tuition for second term.
- April 2 Saturday—Instruction ends at 1 P. M. (Spring recess).
- April 11 Monday—Instruction resumed at 8 A. M.
- May — Saturday—(Holiday) Spring and Navy Day.
- June 6 Monday—Final examinations begin.
- June 14 Tuesday—Final examinations end.
- June 20 Monday—Commencement.

GENERAL STATEMENT

From its foundation, Cornell University has offered special courses for students preparing for the study of medicine.

Among the facilities of the university of especial value to the medical college may be mentioned the museums of vertebrate and invertebrate zoology (including entomology and comparative anatomy), of agriculture, of botany, of geology, and of veterinary medicine. The University Library with its 760,810 volumes and pamphlets, and over 2,000 current periodicals and transactions, is as freely open to medical students as to other university students.

STIMSON HALL. This is a modern and thoroughly equipped laboratory building erected for the medical college at Ithaca in 1902. It was made possible through the generosity of the late Dean Sage of Albany and named at his desire Stimson Hall in recognition of the services rendered by Dr. Lewis A. Stimson toward the establishment of the medical college. The building was especially designed for teaching and research in anatomy, histology, embryology, and physiology.

In the cellar are sound-proof conditioned reflex rooms, the cold-storage, embalming, cremating rooms, and storerooms.

In the basement are the ventilating and cold-storage machinery, a large lecture room, research rooms, and an advanced laboratory for

histology, besides the lower part of the large amphitheatre. Here also is the operating room for physiology.

On the first floor are the coat rooms for men and women, college office, library, reading room, faculty room, histology and embryology research laboratory, general laboratory for experimental physiology, demonstration and metabolism room for physiology, and the upper part of the large amphitheatre.

On the second floor is the Department of Histology and Embryology with a large general laboratory, research laboratory, preparation rooms, and private laboratories for the instructors. On this floor also is the Department of Physiology, with a large general laboratory for biochemistry, research laboratories for biochemistry, a research laboratory for experimental physiology, an incubator room, repair shop and private laboratories for the instructors.

The third floor consists of the general and special dissecting rooms for gross anatomy and neurology, study rooms, dark room, radiology room and amphitheatre, besides rooms for the instructors.

The attic is utilized for photography, macerating skeletons, and for storage.

THE VANCLEEF MEMORIAL LIBRARY. This library, endowed by Mr. Mynderse VanCleaf in honor of his brother, Dr. Charles VanCleaf, is situated in Stimson Hall and supplements the extensive facilities of the university library by a steadily growing collection of reference works and periodicals of importance for the work of instruction and research conducted in Stimson Hall. The library room is lighted by indirect overhead light, and the reading desks are provided with daylight lamp fixtures.

EXPERIMENTAL FIELD STATION. An important adjunct to the Department of Physiology is an Experimental Field Station which consists of nine acres situated in the open country about two miles from the medical college. In this fenced field a barn for the accommodation of large animals such as sheep and goats, and proper houses with runs for small animals have been provided. In such a station animals under observation in feeding and nutrition experiments, for example, may be kept under ideal conditions for long periods of time. A laboratory equipped for the study of conditioned reflexes has been constructed in which it is possible, due to the quiet environment, to provide an experimental room practically sound-proof. This is essential for success in the investigation of conditioned reflexes. Communication between the station and the laboratory is maintained by a motor truck belonging to the department.

THE SARAH MANNING SAGE RESEARCH FUND. As a recognition of the importance of the research side of university work, and as a timely and generous gift, there came in 1916 a bequest of \$50,000 by the will of Sarah Manning Sage, widow of Dean Sage, the donor of Stimson Hall. The income of this sum, or in the discretion of the university the principal also, shall be used to promote the advancement of medical science by the prosecution of research in the Cornell University Medical

College at Ithaca, in connection with any and all subjects at any time embraced in the curriculum.

PLAN OF INSTRUCTION

ANATOMY

ABRAM T. KERR, Professor of Anatomy.

JAMES W. PAPEZ, Professor of Anatomy.

WAYNE RUNDLES, Instructor in Anatomy.

PARK D. KELLER, Assistant in Anatomy.

—————, Assistant in Anatomy.

The courses in anatomy are designed to provide a comprehensive and detailed study of the structure of the human body.

The work in gross anatomy is mostly concentrated in the first term of the first year. The laboratory is open from eight to five on week days, except Saturday. Twenty-five hours a week are allowed for the required work in the first term and four hours a week in the second term. Students who have additional hours free may devote more time to the subject.

The work consists mainly of dissection followed by recitation on the part dissected. For this work there is an ample supply of dissecting material well embalmed and kept in cold storage ready for use. Each student is required to do a clean and careful dissection of a lateral half of the body. The regional method of dissection is followed. The student is furnished a systematic laboratory outline so arranged where possible that the structures in each region can be studied together as a topographic, functional, or surgical area. It is realized that no one method or point of view is sufficient or applicable to every region. The purpose throughout is to make the student find and identify every structure, to appreciate its functional significance, its relations and its peculiar characteristics, to assemble details into general concepts, to visualize and interpret every region and organ. The aim is to direct the student to work methodically, to observe carefully and to think clearly and independently. He is encouraged to make careful notes and as many drawings as time permits. Where feasible, he is taught to compare his findings on the cadaver with conditions in the living body.

An x-ray outfit and fluoroscope in the department make it possible in many regions to compare the x-ray picture from the cadaver with the findings in the dissection. A complete disarticulated skeleton is loaned to each student so that the bones may be available for study when encountered in course of dissection. In addition the department is well equipped with models, cross sections, and special dissections for study and demonstration. For study of the finer structure of the organs hand lenses and several binocular dissecting microscopes are provided in the laboratory. A student library containing atlases and some of the more important anatomical monographs is in connection with the laboratory. Besides the usual regional recitation on the dissected part, demonstration conferences are held about three times a week with the class

as a whole or with smaller groups. Occasional lectures are given on matters that cannot be made clear by dissection and demonstrations.

The work in the anatomy of the nervous system and sense organs is given during the second term. It consists mainly of laboratory work with frequent conferences and recitations. A topographic study and dissection of the organ or part precedes or accompanies its microscopic study. Special attention is given to the sense organs, nerves, nuclei, reflex connections, conduction tracts and cortical areas that enter into the formation of the more important functional systems. In connection with each organ or part, its development and comparative morphology is considered. For this work an ample supply of human brains, brains of lower mammals, Weigert sections, and other preparations is available.

The department is well equipped to provide facilities for those properly qualified to undertake advanced and research work. Students with special ability or training are permitted to do more than the required work. Where time permits they are encouraged to do advanced or research work.

1. *Anatomy of the Head and Neck.*

First term. Credit, 4 hours, 24 actual hours a week for 6 or more weeks. Professors Kerr and Papez, instructors and assistants. Laboratory work, dissection, and conferences.

2. *Anatomy of the Thoracic Walls and Viscera.*

First term. Credit, 1 hour, 24 actual hours a week for 2 or more weeks. Professors Kerr and Papez, instructors and assistants. Laboratory work, dissection, and conferences.

3. *Anatomy of the Abdominal and Pelvic Walls and Viscera.*

First term. Credit, 4 hours, 24 actual hours a week for 6 or more weeks. Professors Kerr and Papez, instructors and assistants. Laboratory work, dissection, and conferences.

5. *The Nervous System. Anatomy, Histology, and Systematization.*

Second term. Credit, 3 hours. Professor Papez and instructors. Eight hours a week laboratory with laboratory demonstrations, conferences and recitations. Dissection of the spinal cord and brain. Microscopic structure and the development of the nervous system.

6. *Anatomy of the Living Body.*

First term. Credit, 2 hours, 3 actual hours a week. Professor Kerr. Interpretation of dissecting room material by means of the living body, frozen sections, and special preparations. A review of the work of Courses 1, 2, and 3.

7. *Anatomy of the Upper Extremity.*

First term. Credit, 2 hours, 24 hours a week for 2 or more weeks. Professors Kerr and Papez, instructors and assistants. Laboratory work, dissection, and conferences.

8. *Anatomy of the Lower Extremity.*

Second term. Credit, 2 hours, 4 hours a week for 16 weeks. Professors Kerr and Papez, instructors and assistants. Laboratory work, dissection and conferences.

9. *Topographical Anatomy.*

First and second terms. Credit, 2 to 5 hours. Elective. Prerequisite, anatomy courses 1, 2, 3, 7, or 8. The detailed dissection and study of any region. Professors Kerr and Papez.

250. *Research in Anatomy and Neurology.*

First and second terms. Professors Kerr and Papez. Advanced and research work in the laboratories. Open only to those who have taken the necessary preliminary courses, and are properly qualified.

HISTOLOGY AND EMBRYOLOGY

BENJAMIN F. KINGSBURY, Professor of Histology and Embryology.

HOWARD B. ADELMANN, Professor of Histology and Embryology.

CLARENCE E. KLAPPER, Assistant in Histology and Embryology.

M. NOBLE BATES, Assistant in Histology and Embryology.

WARNER S. HAMMOND, Assistant in Histology and Embryology.

MARGARET HARLAND, Assistant in Histology and Embryology.

E. LAWRENCE HOUSE, Assistant in Histology and Embryology.

As indicated by the following courses, this department offers elementary and advanced instruction in the theory and use of the microscope and its accessories in histology and embryology and also opportunities for research in all of these subjects.

The material equipment consists of a good supply of modern microscopes. Camera-lucidas, polariscopes, micro-spectroscopes, photo-micrographic cameras, microtomes and other special apparatus such as dark-field illuminators are available in sufficient numbers to give each student opportunity for personally learning to use and apply them to any special study in which they may be needed. Two projection microscopes are available for class demonstrations and for making the drawings used in reconstruction.

The rooms for the use of the department are on the second floor of Stimson Hall. They are well lighted. They consist of a large general laboratory, an advanced laboratory, a preparation room, department office and five private laboratories for the instructing staff, where special demonstrations of difficult subjects are given to small groups of students.

The collection of material and microscopic series of human embryology, contributed mainly by graduates of the college, is steadily growing. Every encouragement is given for the fullest utilization of the opportunities afforded by the department.

The work of the department consists of practical laboratory work, supplemented by lectures, conferences, and demonstrations. The work required of students of medicine is given in Course 10. For those who have already had elsewhere satisfactory work in histology, elective work may be taken in Courses 107 and 108. Courses open to students in the College of Arts and Sciences and Veterinary Medicine are described in the Announcements of these colleges.

COURSES REQUIRED OF STUDENTS OF MEDICINE

10. *Histology.*

First term. Credit, 8 hours. Professors Kingsbury and assistants. Required of first-year students of medicine. Four laboratory periods and four lectures each week. The work includes (a) The fundamentals of human development; (b) The histology of the tissues and organs (except the nervous system); (c) The main facts of histogenesis and the development of the organs (except the nervous system). It is highly advantageous that the course be preceded by a course in embryology (see Courses of Instruction of the College of Arts and Sciences, Course 104).

ADVANCED AND ELECTIVE COURSES

107. *Advanced Work in Histology and Embryology.*

First and second terms. Professor Kingsbury and Professor Adelman. Laboratory work, eight or more actual hours a week, with Seminary (Course 108).

This course is designed for those preparing theses for baccalaureate or advanced degrees, and for those wishing to undertake special investigations in histology and embryology.

Course 107 is open to those who have had Course 10, or its equivalent. A good reading knowledge of French and German is indispensable for the most successful work in this course. It is suggested that those who intend to take this course confer with the head of the department as early as possible, so that the work may be planned to the best advantage.

108. *Seminary.*

First and second terms. One hour each week at an hour to be arranged.

For the discussion of current literature and the presentation of original work by the members of the department staff and those doing advanced work in the department. It may be taken in connection with Course 107.

PHYSIOLOGY

HOWARD S. LIDDELL, Professor of Physiology.

JOSEPH A. DYE, Assistant Professor of Physiology.

OSCAR D. ANDERSON, Acting Assistant Professor of Physiology.

GEORGE H. MAUGHAN, Research Assistant in Physiology.

RICHARD PARMENTER, Research Assistant in Physiology.

GEORGE F. SUTHERLAND, Research Assistant in Physiology.

This subject is taught in the second term of the first year of the medical curriculum. It is the aim of the department to give the students a thorough training in the fundamentals of the science of physiology and an effort is made to strike the proper balance between the study of theoretical principles in the lecture room and the practical application of these in the laboratory.

Nine hours a week are devoted to practical exercises, special attention being given to experimental methods which are likely to be of importance in the study of clinical medicine.

In the laboratory, from year to year, less and less time is taken up with frog physiology and more and more time devoted to a practical study of mammalian functions. This is made possible by the fact that the department now possesses six large Brodie type kymographs of recent pattern for the exclusive use of medical students.

The following courses are offered:

31. *Physiology of Muscle and Nerve; Central and Autonomic Nervous Systems; Special Senses.*

Second term. Credit, 4 hours. Professor Liddell and assistants. Four lectures or recitations and three laboratory periods weekly for eight weeks.

34. *Physiology of Digestion and Secretion; Absorption; Assimilation; and Functions of the Endocrine Glands.*

Second term. Credit, 4 hours. Assistant Professor Dye, and assistant. Four lectures or recitations and three laboratory periods weekly for eight weeks, supplemented by demonstrations, conferences and written reviews. In the laboratory, the students will gain practical experience by making animal preparations, demonstrating and studying the physiological mechanisms of the mammalian body.

308. *Advanced Work and Research in Physiology.*

First and second terms. Credit, 2 or more hours. Assistant Professor Dye. Prerequisite or parallel, courses 31 and 34 or their equivalents. This course is designed for undergraduate students who are especially interested in physiological problems and wish to undertake special investigations in this field in preparation for further work toward advanced degrees.

310. *Seminary in Physiology.*

Second term. Credit, 1 hour. For graduate students and others properly qualified. Hour to be arranged. Members of the staff. Reports on recent advances in physiology.

BIOCHEMISTRY

JAMES B. SUMNER, Professor of Biochemistry.

STACEY F. HOWELL, Instructor in Biochemistry.

ALEXANDER L. DOUNCE, Instructor in Biochemistry.

In this section the student is taught the chemistry of the tissues, fluids, secretions, and excretions of the human body; the composition of food-stuffs, and the phenomena of their digestion, absorption, and assimilation; the role of enzymes in the animal economy; the principles of nutrition; and the leading facts of general and special metabolism. Groups of organic compounds of special biological importance will be discussed emphasizing particularly the carbohydrates, purins, amino acids, and fats. The fundamental properties of electrolytes and colloids and the phenomena of osmosis and dialysis will be considered in lecture room and laboratory. Instruction is given in the use of analytical methods for the examination of biological products, both normal and pathological. Those methods are principally considered which have found an application in scientific medicine, and special attention is devoted to the quantitative analysis of the gastric contents, blood, and urine. Each student completes the course by performing a metabolism experiment upon himself.

The bulk of the instruction is given in the laboratory. As occasion arises, the student's individual work is supplemented by experimental demonstrations; while by means of lectures and recitations it is sought to co-ordinate the whole, and to expound the theoretical aspects of the subject.

The following courses are offered:

15. *General Biochemistry.*

Second term. Credit, 9 hours. Five lectures or recitations and four three-hour laboratory periods weekly; supplemented by demonstrations, conferences and written reviews. Professor Sumner, Instructors Howell and Dounce. Required of first-year students of medicine.

17. *Chemistry of Enzymes.*

First term. Credit 2 and 3 hours. Professor Sumner. Tuesday and Thursday at 10. (Not given in 1937-38.)

319. *Plant Biochemistry.*

First term. Credit three hours. Lectures, Tuesday and Thursday at 11:00. Demonstration, Saturday at 11:00. Dr. HOWELL.

320. *Advanced and Research Work in Biochemistry.*

First and second terms. Professor Sumner. The laboratory is open daily to all qualified persons for advanced instruction or the prosecution of research. Courses are arranged to suit the training and requirements of the individual student.

SUMMARIZED STATEMENT

In this schedule the counts or university hours are given on the following basis: One recitation or lecture weekly for one term or half year gives a credit of one; for laboratory work it requires two and one-half to three actual hours weekly for a term or half year to secure a credit of one.

REQUIRED COURSES

FIRST TERM

1. *Anatomy of the Head and Neck.*

Credit, 4 hours, 24 actual hours a week for 6 weeks. Professors Kerr and Papez, instructors and assistants. Laboratory work, dissection, and conferences.

2. *Anatomy of the Thoracic Walls and Viscera.*

Credit, 1 hour, 24 actual hours a week for two weeks. Professors Kerr and Papez, instructors and assistants. Laboratory work, dissection, and conferences.

3. *Anatomy of the Abdominal and Pelvic Walls and Viscera.*

Credit, 4 hours, 24 actual hours a week for 6 weeks. Professors Kerr and Papez, instructors and assistants. Laboratory work, dissection, and conferences.

6. *Anatomy of the Living Body.*

Credit, 2 hours, 3 actual hours a week. Professor Kerr.

7. *Anatomy of the Upper Extremity.*

Credit, 2 hours, 24 actual hours a week for 2 or more weeks. Professors Kerr and Papez, and assistants.

10. *Histology.*

Credit, 8 hours. Professors Kingsbury, Adelman, instructors and assistant. Four laboratory periods and four lectures each week.

SECOND TERM

31. *Physiology of Muscle and Nerve; Central and Autonomic Nervous Systems; Special Senses.*

Credit, 4 hours. Professor Liddell and assistants. Four lectures or recitations and three laboratory periods, weekly for eight weeks.

34. *Physiology of Digestion and Secretion; Absorption; Excretion; Heat Production and Its Regulation; Functions of the Endocrine Glands.*

Credit, 4 hours. Four lectures or recitations and three laboratory periods weekly for eight weeks, supplemented by demonstrations, conferences and written reviews. In the laboratory, the students will gain practical experience by making animal preparations, demonstrating and studying the physiological mechanisms of the mammalian body. Assistant Professor Dye and assistants.

15. *General Biochemistry.*

Credit, 9 hours. Five lectures or recitations and four three-hour laboratory periods weekly, supplemented by demonstrations, conferences, and written reviews. Professor Sumner and instructors.

5. *The Nervous System, Anatomy, Histology, and Development.*

Credit, 3 hours. Assistant Professor Papez and instructors. Eight actual hours a week. Dissection of the spinal cord and brain. Microscopic structure of the nervous system and organs of special sense.

8. *Anatomy of the Lower Extremity.*

Credit, 2 hours, 4 actual hours a week. Professors Kerr and Papez and assistants.

FIRST TERM

	<i>No. of Course</i>	<i>University Hours</i>	<i>Actual Hours Weekly</i>
Anatomy	1,2,3,7	11	24
Anatomy	6	2	3
Histology	10	8	16
		<hr/>	<hr/>
		21	43

SECOND TERM

Anatomy	8	2	4
Physiology	31	4}	13
Physiology	34	4}	
Nervous System	5	3	8
Biochemistry	15	9	17
		<hr/>	<hr/>
		22	42

GENERAL INFORMATION

REQUIREMENTS AND APPLICATIONS FOR ADMISSION

The requirements for admission and the policies relating to applications are identical with those of the Medical College at New York City (see pages 49 and 57). Applications for enrollment in the Ithaca division may be submitted to the Secretary of the Medical College, Ithaca, New York.

RESIDENCE AND REGISTRATION

The college year is nine months long, extending from the last of September till about the middle of June, and is divided into two nearly equal terms. (For exact dates, see calendar on page 94.)

No credit is given for work done in absentia. For leave of absence during the session, application should be made to the Secretary.

At the beginning of the term students must register with the University Registrar, in Morrill Hall. After registration with the University Registrar, they must register with the Secretary of the Medical College, in Stimson Hall.

EXAMINATIONS AND ADVANCEMENT

The general plan of the advancement of students from one year to the next will be found on page 50. On completion of the first year at Ithaca a transcript of record of each student, together with a statement that such student is recommended for admission to the second-year class, is transmitted by the faculty at Ithaca to the faculty of the medical college in New York City. As a student is not advanced from one year to another until all the work of the year is completed, a student from Ithaca cannot enter the second-year class in New York until the entire schedule of the first year has been successfully completed. The rules governing the eligibility of a student to take a re-examination in a course are set forth on page 51.

CHARGES FOR INSTRUCTION

FIRST YEAR

Matriculation	\$ 11
Tuition	500
	<hr/>
	\$511

Willard Straight Hall and Infirmary fees are paid by medical students as well as by all other students.

All tuition and other fees may be changed or increased by the Trustees to take effect at any time without previous notice.

RESIDENTIAL HALLS

The University has eight residential halls for men students situated on the campus and furnishing accommodations for about 600 students. For particulars address The Manager of Residential Halls, Morrill Hall, Ithaca, N. Y. There are, also, many private boarding and rooming houses near the campus. In these the cost of board and furnished room, with heat and light, varies from \$10 to \$15 a week. By the formation of clubs, students are sometimes able to reduce their expenses for room and board. Cafeterias are maintained by the university in Willard Straight Hall and in the Home Economics Building, where meals can be obtained at reasonable prices.

Before engaging rooms, students should carefully examine sanitary conditions and should particularly insist on satisfactory and sufficient fire escapes. The university publishes and distributes a list of approved rooming houses. This list is ready for distribution August 15. New students are advised to come to Ithaca a few days in advance of the beginning of the university duties in order that they may have ample time to secure room and board before the opening of the academic year. The Freshman Advisory Committee offers its assistance to new students in the selection of rooming and boarding houses.

The residential halls for women students are Sage College, Prudence Risley Hall, and Balch Halls. In these buildings, which are exclusively for women students, the total cost of board, laundry, and rent of furnished rooms, with heat and light is \$525 a year. The halls are heated by steam and lighted by electricity. The Dean of Women has jurisdiction over all women students in the university, and women students are not permitted to board and lodge outside of the halls for women except in houses approved by her and subject to her direction. Prospective women students should write to the Dean of Women for information concerning any matters in which they may need assistance. Dormitory facilities for women are inadequate, and prospective students desiring such accommodations are urged to make early application. Inquiries in regard to board and rooms in the women's halls should be addressed to The Manager of Residential Halls, Morrill Hall, Ithaca, N. Y.

CORNELL UNIVERSITY MEDICAL COLLEGE

ITHACA, N. Y.

FIRST YEAR—SESSION OF 1937-38—FIRST TERM

	8	9	10	11	11:30	1	2	3
Monday	Anatomy L.	Histology L.	Histology			Anatomy		
Tuesday	Anatomy					Anatomy		
Wednesday	Anatomy L.	Histology L.	Histology			Anatomy		
Thursday	Anatomy					Anatomy		
Friday	Anatomy L.	Histology L.	Histology			Anatomy		
Saturday	Histology L.		Histology					

FIRST YEAR—SESSION OF 1937-38—SECOND TERM

	8	9	10	11	11:30	1	2	3
Monday	ANATOMY					Neuro-Anatomy		
Tuesday	Biochemistry L.	Physiology				Physiology		
Wednesday	Physiology L.	Biochemistry L.	Biochemistry			Neuro-Anatomy		
Thursday	Physiology L.	Biochemistry L.	Physiology			Biochemistry		
Friday	Physiology L.	Biochemistry L.	Biochemistry			Neuro-Anatomy		
Saturday	Physiology L.	Biochemistry L.	Biochemistry					

THE COMBINED A.B. AND M.D. DEGREES

The medical college advises students to complete, whenever feasible, the full four-year A.B. course before applying for admission to this college. It is possible, however, to be admitted to the medical college under Section II of the entrance requirements. This is to provide for those students who, by specially directed or especially proficient work, accomplish the essential requirements for the Arts degree during three years of college residence. No students are admitted under this classification unless their college faculty will permit them to substitute the first year in the Cornell University Medical College for the fourth year of their college course, and no student is admitted to the second year in the Medical College without the bachelor's degree obtained after at least three years of undergraduate college work.

The first year in the medical course, which may be taken in place of the fourth year of the arts work, may be pursued either in Ithaca or in New York City. If all the work of this year is completed satisfactorily the student receives the degree of A.B. or its equivalent, and is per-

mitted to take the last three years of the medical work. These are taken entirely in the Cornell University Medical College in New York City.

For the convenience of college students preparing for medicine there is given below a suggested outline of courses in physics, chemistry and biology which will satisfy the requirements for admission to Cornell University Medical College, as given on page 49 of this announcement. These subjects are listed with the course numbers as given in the announcement of the College of Arts and Sciences of Cornell University, but essentially similar courses are given by other institutions. These courses are arranged on the basis of three years in the College of Arts and Sciences. If a student is taking four years in a college of liberal arts, courses may be taken in later years or the order may be varied, but it is important that those courses which are prerequisites for other prescribed courses should be taken in the sequence recommended.

In addition to the subjects required for admission to the Medical College, the student will take all basically essential courses prescribed by the College of Arts and Sciences, such as English, foreign language, philosophy and psychology, history, mathematics, economics, and government.

In selecting other elective courses desirable for those preparing for medicine, the student should consult professors in the Faculty of the College of Arts and Sciences. In Cornell the major adviser would be a designated representative from the department in which he selects his major subject.

It is desirable that included in or in addition to the foreign language required for admission to the medical college, students should obtain a reading knowledge of French and German.

FIRST YEAR IN ARTS

	<i>Course No.</i>	<i>1st Term Hours Credit</i>	<i>2nd Term Hours Credit</i>
Animal Biology (Introductory Zoology).....	1	3	3
Chemistry (Introductory Inorganic).....	101		3
Chemistry (Introductory Inorganic)....	105		3

SECOND YEAR IN ARTS

Animal Biology (Comparative Anatomy and morphology of vertebrates).....	11	3	3
Chemistry (Introductory Qualitative Analysis).....	210	3	
Physics (Introductory Experimental).....	7 & 8	3	3

THIRD YEAR IN ARTS

Chemistry (Elementary Organic).....	375	6	
or			
Chemistry (Introductory Organic).....	305	3	3
Chemistry (Introductory Organic).....	310	3	
Animal Biology (Histology and Histogenesis of the tissues).....	101	4	
Animal Biology (Vertebrate Embryology).....	104		5
Physics (Introductory Physical Experiments).....	55	3	

GRADUATE WORK AT ITHACA

ADMISSION

Graduate work in certain fields is offered at the Medical College at Ithaca. This work is under the jurisdiction of the Faculty of the Graduate School. For details concerning admission and requirements see page 91 of this Announcement and the Announcement of the Graduate School.

FACILITIES

The facilities of the departments of anatomy, histology and embryology, physiology and biochemistry, have been outlined under the description of each department. These are equally available for the use of the graduate students and for medical students.

FELLOWSHIPS AND GRADUATE SCHOLARSHIPS

Among the twenty-nine fellowships and twelve scholarships offered annually to students in the Graduate School, the following are of particular interest to students continuing work in biological sciences:

THE SCHUYLER FELLOWSHIP IN ANIMAL BIOLOGY (annual value of \$400 and free tuition in the Graduate School).

THE GRADUATE SCHOLARSHIP IN ANIMAL BIOLOGY (annual value of \$200 and free tuition in the Graduate School).

INTERNSHIP APPOINTMENTS, CLASS OF 1937 DOCTORS OF MEDICINE, JUNE 16, 1937

Shepard G. Aronson, A.B.	Jewish Hospital of Brooklyn, Brooklyn, N. Y.
Stanley Sisco Atkins, A.B.	Brooklyn Hospital, Brooklyn, N. Y.
William Alexander Barnes, A.B.	New York Hospital, New York, N. Y.
Ruth Barnhart, A.B.	Baltimore City Hospital, Baltimore, Md.
Frank Albert Baumann, A.B.	Binghamton City Hospital, Binghamton, N. Y.
Abram Salmon Benenson, A.B.	Queens General Hospital, Jamaica, N. Y.
James Frederick Bing, B.S.	Lenox Hill Hospital, New York, N. Y.
Henry Seavey Blake, Jr., B.S.	Harper Hospital, Detroit, Mich.
John Hood Branson, Jr., A.B.	Methodist-Episcopal Hospital, Brooklyn, N. Y.
Julian Scott Butterworth, A.B.	New York Post-Graduate Hospital, New York, N. Y.
Arthur Illges Chenoweth, A.B.	New York Hospital, New York, N. Y.
Bliss Bartlett Clark, A.B.	Bellevue Hospital, New York, N. Y.
Janet Cobb, A.B.	No internship wanted
David Aloysius Connors, B.S.	Mary Immaculate Hospital, Jamaica, N. Y.
Carleton Montgomery Cornell, A.B.	Bellevue Hospital, New York, N. Y.
Donald Thayer Dodge, B.S.	Strong Memorial Hospital, Rochester, N. Y.
Walton Meredith Edwards, A.B.	Gallinger Municipal Hospital, Washington, D. C.
Walter Eugene Fleischer, B.S.	French Hospital, New York, N. Y.
Edgar Philip Fleischmann, A.B.	Albany Hospital, Albany, N. Y.
William Thomas Foley, A.B.	U. S. Naval Hospital, Philadelphia, Pa.
Cornelia Jane Gaskill, B.S.	Jersey City Medical Center, Jersey City, N. J.
Ira Gore, A.B.	Kings County Hospital, Brooklyn, N. Y.
Edward James Hehre, A.B.	New York Hospital, New York, N. Y.
Palaemon Lawrence Hilsman, A.B.	Bellevue Hospital, New York, N. Y.
Aaron Himmelstein, B.S.	Morrisania City Hospital, New York, N. Y.
William Douglas Holden, A.B.	Lakeside Hospital, Cleveland, Ohio
Elmer Leaman Horst, B.S.	Reading Hospital, Reading, Pa.
Elizabeth Page Hosmer, A.B.	Jersey City Medical Center, Jersey City, N. J.
Horace Leonard Jones, Jr., A.B.	Roosevelt Hospital, New York, N. Y.
George Leonard Kauer, Jr., B.S.	New York Hospital, New York, N. Y.
Joseph Taylor Kauer, B.S.	New York Hospital, New York, N. Y.
Ernest Ellsworth Keet, Jr., A.B.	Kings County Hospital, Brooklyn, N. Y.
Francis Conrad Keil, Jr., A.B.	Bellevue Hospital, New York, N. Y.
Putnam Cornelius Kennedy, A.B.	Mallory Institute of Pathology, Boston, Mass.
Newton Krumdieck, A.B.	New York Hospital, New York, N. Y.
Andrew Olavi Laakso, B.S.	Hartford Hospital, Hartford, Conn.
William Caldwell Layton, A.B.	Abington Hospital, Abington, Pa.
Harold Lohnaas, A.B.	Monmouth Memorial Hospital, Long Branch, N. J.
Eugene Leonard Lozner, A.B.	Albany Hospital, Albany, N. Y.
Norman William MacLeod, A.B.	Jersey City Medical Center, Jersey City, N. J.
Henry Belden Marshall, A.B.	Jersey City Medical Center, Jersey City, N. J.
George Rodney Meneely, B.S.	Strong Memorial Hospital, Rochester, N. Y.
William Earl Moore, B.S. Chem.	Baltimore City Hospital, Baltimore, Md.
Hugh Crahan Murphy, B.S.	Lincoln Hospital, New York, N. Y.
Helen Josephine Neave, A.B.	Baltimore City Hospital, Baltimore, Md.

William Alfred Paff, A.B.	Lincoln Hospital, New York, N. Y.
William Henry Pettus, Jr., B.S.	Duke Hospital, Durham, N. C.
Donald Burns Read, A.B.	Lenox Hill Hospital, New York, N. Y.
Charles Hiram Richards, B.S.	Fellowship Neurology, New York Hospital
Charles Burling Roesch, A.B.	University of Minnesota Hospital, Minneapolis, Minn.
Arthur Merriam Rogers, A.B.	Pennsylvania Hospital, Philadelphia, Pa.
George Parke Rouse, Jr., A.B.	Presbyterian Hospital, Philadelphia, Pa.
George Schaefer, B.S.	Jewish Hospital of Brooklyn, Brooklyn, N. Y.
Raymond Schwartz, A.B.	Bellevue Hospital, New York City
Arthur Walter Seligmann, Jr., A.B.	Mount Sinai Hospital, New York, N. Y.
Edwin McRae Shepherd, B.S.	French Hospital, New York, N. Y.
Irving Ernest Sisman, B.S.	Jewish Hospital of Brooklyn, Brooklyn, N. Y.
Saul Mouchly Small, B.S.	New York Hospital, New York, N. Y.
Henley Abraham Stark, A.B.	Mount Sinai Hospital, Cleveland, Ohio
William Howard Sternberg, A.B.	Montefiore Hospital, New York, N. Y.
Fayette King Stroud, A.B.	Emanuel Hospital, Portland, Ore.
Kenneth Aloysius Tyler, A.B.	St. Vincent's Hospital, Portland, Ore.
Daniel Gilroy Unangst, B.S.	Fordham Hospital, New York, N. Y.
Dorothea Deimel Vann, A.B.	Jersey City Medical Center, Jersey City, N. J.
Edward Houghton Vincent, B.S.	Cincinnati General Hospital, Cincinnati, Ohio
Walter Eugene Vogt, B.S.	Grasslands Hospital, Valhalla, N. Y.
Chauncey Prentiss Ward, A.B.	Newark City Hospital, Newark, N. J.
Charles Oscar Warren, Jr., A.B., M.Sc., Ph.D.	New York Hospital, New York, N. Y.
Richard Hutchins Whelpley, A.B.	Jersey City Medical Center, Jersey City, N. J.
George Wineburgh, A.B.	Meadowbrook Hospital, Hempstead, N. Y.
Jesse Charles Woodward, A.B.	Methodist-Episcopal Hospital, Brooklyn, N. Y.

STUDENTS, 1937-1938

FOURTH YEAR

- Robert Joseph Amberg, A.B., 1934, Princeton University
 Talcott Bates, A.B., 1934, Princeton University
 Ruth Pirkle Berkeley, A.B., 1922, Agnes Scott College;
 M.S., 1926, Emory University
 Kingsley Bishop, A.B., 1935, Allegheny College
 Willard James Blauvelt, A.B., 1935, Cornell University
 Austin Patrick Boleman, Jr., B.S., 1934, New York University
 Madeline Burlingame, A.B., 1934, Wellesley College
 Louis T. Campbell, A.B., 1935, Cornell University
 Walter Titus Carpenter, A.B., 1934, Williams College
 Eugene Jerin Cohen, A.B., M.S., 1934, University of Wisconsin
 William Henry Curley, Jr., B.S., 1935, Yale University
 Gustave John Dammin, A.B., 1934, Cornell University
 Wilbur George Downs, A.B., 1935, Cornell University
 Robert Stuart Dyer, A.B., 1935, Cornell University
 Aaron Robinson Edwards, A.B., 1934, Cornell University
 Alan Harold Fenton, A.B., 1934, Columbia University
 Wesley Fenton Fitzpatrick, B.S., 1928, Yale University
 Ellen Bellows Foot, A.B., 1934, Smith College
 William Isaac Glass, A.B., 1934, College of the City of New York
 Stephen Lawrence Gumpert, A.B., 1934, Amherst College
 Lawrence Wilson Hanlon, A.B., 1935, Cornell University
 Helen Stevens Haskell, A.B., 1927, Cornell University;
 A.M., 1929, Columbia University
 Emerson Randolph Hatcher, A.B., 1934, Berea College
 Martin Joseph Healy, Jr., A.B., 1934, Holy Cross College
 Allen Wesley Hildreth, A.B., 1935, Cornell University
 Clayton Stanley Hitchins, A.B., 1934, Cornell University
 Frederic Joseph Hughes, A.B., 1935, Cornell University
 John David Hunter, A.B., 1935, Cornell University
 Quentin McAdams Jones, A.B., 1935, Cornell University
 Frederick Stephen Kinder, A.B., 1934, Cornell University
 Gilbert Lacy Klemann, A.B., 1934, Williams College
 George Mahlon Knapp, A.B., 1935, Columbia University
 Robert Miller Laughlin, A.B., 1934, Ohio University
 Aaron Lee Lichtman, B.S., 1934, College of the City of New York
 Charles A. Lippincott, B.S., 1933, Yale University
 Ann Lavinia Martin, A.B., 1935, Cornell University,
 Alfred Edward Maumenee, Jr., A.B., 1934, University of Alabama
 Harold Henderson Meanor, Jr., B.S., 1934, Washington & Jefferson
 Stephen Christopher Meigher, A.B., 1934, Dartmouth College
 Curtis Lester Mendelson, A.B., 1934, University of Michigan
 Clifford Wheeler Mills, A.B., 1935, Dartmouth College
 Alvin Robert Mintz, A.B., 1935, Cornell University
 Cornelia Davis Morse, A.B., 1934, Cornell University
 Stanley Fletcher Morse, Jr., A.B., 1934, Williams College
 Charles Lamar Neill, B.S., 1935, Millsaps College
 Robert Carl Nydegger, A.B., 1935, University of Wyoming
 Bernard David Patterson, A.B., 1934, Columbia University
 Charles Ressler, B.S., 1934, Lafayette College
 Joseph George Rickert, A.B., 1935, Cornell University
 George Michael Robertson, A.B., 1934, New York University
 Haskell Benjamin Rosenblum, A.B., 1933, Cornell University
 Elmer Key Sanders, B.S., 1934, Birmingham-Southern College
 Stuart Sanger, B.S., 1928, Yale University
 Ralph Hunt Seeley, Jr., A.B., 1935, Dartmouth College
 John James Smith, A.B., 1934, St. Peter's College
 Maplewood, N. J.
 New York, N. Y.
 New York, N. Y.
 Nyack, N. Y.
 Port Byron, N. Y.
 New York, N. Y.
 Brooklyn, N. Y.
 Brighton, Col.
 Brooklyn, N. Y.
 Worcester, Mass.
 Bridgeport, Conn.
 New York, N. Y.
 Saranac Lake, N. Y.
 Binghamton, N. Y.
 Maryville, Ohio
 Pelham, N. Y.
 Pearl River, N. Y.
 New York, N. Y.
 Bronx, N. Y.
 New York, N. Y.
 Odessa, N. Y.
 Malone, N. Y.
 Berea, Ky.
 New York, N. Y.
 Bay Shore, N. Y.
 Lock Haven, Pa.
 Plainfield, N. J.
 Maplewood, N. J.
 Utica, N. Y.
 Staten Island, N. Y.
 New Rochelle, N. Y.
 Larchmont, N. Y.
 Pittsburgh, Pa.
 New York, N. Y.
 Plainfield, N. J.
 New York, N. Y.
 Birmingham, Ala.
 Coraopolis, Pa.
 Schenectady, N. Y.
 New York, N. Y.
 Worcester, Mass.
 Morristown, N. J.
 Auburn, N. Y.
 Sumter, S. C.
 Ellisville, Miss.
 Laramie, Wyo.
 Queens Village, N. Y.
 Englewood, N. J.
 Richmond Hill, N. Y.
 Oswego, N. Y.
 Butler, Pa.
 Birmingham, Ala.
 New York, N. Y.
 Rutland, Vt.
 Rahway, N. J.

- Elizabeth Bond Stout, A.B., 1934, Wellesley College
 Hoyt Chase Taylor, A.B., 1933, A.M., 1934, Wesleyan College
 Norman Davis Thetford, A.B., 1934, Cornell University
 Marvin Loughran Thompson, A.B., 1934, Wesleyan College
 Frederick Charles Thorne, A.B., 1930, A.M., 1931, Ph.D., 1934,
 Columbia University
 Stephen Herbert Tolins, A.B., 1934, Cornell University
 Daniel Michael Tolmach, A.B., 1935, Cornell University
 Arthur Friedman Valenstein, A.B., 1934, Cornell University
 Samuel Austell Wilkins, Jr., A.B., 1934, University of North Carolina
 Edwin Thurston Williams, B.S., 1933, Washburn College
 Roger Gilbert Windsor, A.B., 1935, Cornell University
 Griffith Joel Winthrop, A.B., 1935, New York University
 Herbert John Wright, Jr., A.B., 1934, Cornell University
- Pleasantville, N. Y.
 Norwich, Conn.
 Belleville, N. J.
 Jamaica, N. Y.
 Flushing, N. Y.
 New York, N. Y.
 Brooklyn, N. Y.
 New York, N. Y.
 Dallas, N. C.
 Topeka, Kansas
 Maplewood, N. J.
 New York, N. Y.
 Schoharie, N. Y.

THIRD YEAR

- Thomas Pattison Almy, A.B., 1935, Cornell University
 William Stevenson Armour, A.B., 1935, Cornell University
 Thomas Lyon Ball, A.B., 1936, Cornell University
 Henry Saunder Berkowitz, A.B., 1935, Cornell University
 Raymond Milton Brown, B.S., 1935, Cornell University
 William Gunton Budington, A.B., 1936, Columbia University
 Walter Richard Buerger, A.B., 1936, Cornell University
 Francis Guy Casey, B.S., 1935, Manhattan College
 Melva Adeline Clark, A.B., 1935, Wellesley College
 Charles Wilson Collins, Jr., B.S., 1935, University of Virginia
 Nathaniel Comden, A.B., 1935, Cornell University
 John Henry Dale, Jr., B.S., 1935, Hamilton College
 Alfred Dudley Dennison, Jr., A.B., 1935, Hamilton College
 Thomas Joseph Dring, B.S., 1935, Rhode Island State College
 Herman Feinstein, A.B., 1936, Cornell University
 Sarah E. Flanders, A.B., 1935, Bryn Mawr College
 J. Scott Gardner, A.B., 1935, University of Utah
 Regina Gluck, A.B., 1934, University of Wisconsin
 Henry Goebel, Jr., A.B., 1935, Columbia University
 Julian P. Griffin, B.S., 1935, Massachusetts State College
 Harvey Paterson Groesbeck, Jr., A.B., 1935, Union College
 Gert S. Gudernatsch, A.B., 1935, Cornell University
 Arthur Digby Hengerer, A.B., 1935, Hamilton College
 Edgar Rhuel Hyde, Jr., A.B., 1936, Dartmouth College
 Leroy Hyde, A.B., 1936, Cornell University
 Ivan Isaacs, A.B., 1935, Cornell University
 Richard Gentry Jackson, A.B., 1935, Centre College
 Herman Lawrence Jacobius, A.B., 1936, Columbia University
 Louis R. Kent, A.B., 1935, Oberlin College
 August Martin Kleeman, B.S., 1935, Harvard College
 Frederick John Knocke, A.B., 1935, Princeton University
 Edward Charles Kunkle, Jr., A.B., 1935, Haverford College
 Robert Landesman, A.B., 1936, Columbia University
 Vincent de Paul Larkin, A.B., 1935, Fordham University
 Ivar Joseph Larsen, B.S., 1935, Connecticut State College
 James Henry Lockhart, Jr., A.B., 1935, Princeton University
 Hamilton Meeks McCroskery, A.B., 1935, Wesleyan University
 Malcolm Judd Mann, A.B., 1936, Cornell University
 John Henry Mayer, Jr., A.B., 1936, Cornell University
 Donald Richard Morrison, B.S., 1935, Fordham University
 Hugh Mullan, B.S., 1934, U.S. Naval Academy
 Equinn William Munnell, B.A., 1935, Amherst College
 George E. Poucher, Jr., A.B., 1934, DePauw University
 Francis Zenville Reinus, A.B., 1934, Amherst College
- Redding, Conn.
 East Orange, N. J.
 Mahanoy City, Pa.
 Brooklyn, N. Y.
 New York, N. Y.
 New York, N. Y.
 Eggertsville, N. Y.
 Brooklyn, N. Y.
 Hempstead, N. Y.
 Milford, Conn.
 Brooklyn, N. Y.
 Englewood, N. J.
 Johnstown, N. Y.
 Newport, R. I.
 Huntington, N. Y.
 New York, N. Y.
 Cedar City, Utah
 Lawrence, N. Y.
 Jamaica, N. Y.
 Indian Orchard, Mass.
 Schenectady, N. Y.
 New York, N. Y.
 Buffalo, New York
 New York, N. Y.
 Brooklyn, N. Y.
 New York, N. Y.
 Danville, Ky.
 New York, N. Y.
 Port Washington, N. Y.
 Maplewood, N. J.
 New York, N. Y.
 Mount Vernon, N. Y.
 New York, N. Y.
 New York, N. Y.
 Stratford, Conn.
 Pittsburgh, Pa.
 East Orange, N. J.
 Ithaca, N. Y.
 Kansas City, Mo.
 New York, N. Y.
 Staten Island, N. Y.
 Sayville, N. Y.
 Rochester, Pa.
 New York, N. Y.

Charles Edward Robinson, Jr., A.B., 1936, Cornell University	Brooklyn, N. Y.
Karl Dean Rundell, A.B., 1936, Cornell University	Owego, N. Y.
Charles Adrian Sand, A.B. 1936, Columbia University	San Francisco, Cal.
Addison Beecher Scoville, Jr., A.B., 1936, Cornell University	Mt. Vernon, N. Y.
Alan Gilbert Simpson, Jr., A.B., 1935, Wesleyan University	Douglaston, N. Y.
Lois Miller Smedley, A.B., 1935, Mount Holyoke College	Brooklyn, N. Y.
Mary McClintock Spofford, A.B., 1929, Smith College	Brookline, Mass.
Charles Steenburg, A.B., 1936, Cornell University	Spencer, N. Y.
Raymond Arthur Sterrett, A.B., 1926, Princeton University	New York, N. Y.
Richard Harrington Stevens, A.B., 1935, Bard College	Tuckahoe, N. Y.
Joseph Deuel Sullivan, B.S., 1935, Fordham University	New York, N. Y.
Vivian Allison Tenney, A.B., 1935, Barnard College	New York, N. Y.
Ralph Raymond Tompsett, A.B., 1934, Cornell University	Tidioute, Pa.
LeRoy Otten Travis, A.B., 1935, Lehigh University	Great Neck, N. Y.
George Arthur Vassos, Jr., B.S., 1936, Massachusetts State College	Springfield, Mass.
Frederick Albert Wilson, A.B., 1935, Cornell University	Sag Harbor, N. Y.
Robert J. Whipple, B.S., 1935, New York University	McConnellsville, N. Y.
William Graves Woodin, A.B., 1936, Cornell University	Dunkirk, N. Y.
Harold Samuel Wright, A.B., 1936, Cornell University	Norwood, N. Y.

SECOND YEAR STUDENTS

Edward Topf Adelson, A.B., 1936, Cornell University	Newark, N. J.
Frank Lynn Armstrong, A.B., 1936, Cornell University	Milford, N. Y.
Lamson Blaney, B.S., 1936, Harvard College	New York, N. Y.
Harry Abner Bradley, A.B., 1937, Cornell University	Monticello, N. Y.
Everett Curme Bragg, A.B., 1936, Cornell University	White Plains, N. Y.
Wilhelm Henning Brauns, B.S., 1936, Hamilton College	Buffalo, N. Y.
Ezra Volk Bridge, A.B., 1936, Cornell University	Rochester, N. Y.
John Veatch Brundage, A.B., 1936, Ohio State University	Columbus, Ohio
Robert Boyce Bryant, B.S., 1936, Middlebury College	Malone, N. Y.
William Herster Burke, A.B., 1937, Cornell University	Elmira, N. Y.
Alvin Maurice Cahan, A.B., 1936, Cornell University	New York, N. Y.
Donald Campbell, B.S., 1936, Fordham University	New York, N. Y.
James Daniel Canter, A.B., 1936, Columbia University	New York, N. Y.
William Nesbitt Chambers, A.B., 1936, Amherst College	New York, N. Y.
John Milton Chapman, A.B., 1936, Cornell University	Rochester, N. Y.
Francis Place Coombs, A.B., 1937, Colgate University	Brattleboro, Vt.
John Joseph Creedon, A.B., 1937, Columbia University	Flushing, N. Y.
George Beven Davis, A.B., 1936, Cornell University	Kingston, Pa.
James Alexander Dingwall, III, A.B., 1936, Dartmouth College	Scarsdale, N. Y.
William Augustus Donnelly, A.B., 1934, Yale University	Bridgeport, Conn.
Charles Dusenberry, A.B., 1935, Princeton University	New York, N. Y.
Lisgar Bowne Eckardt, A.B., 1931, DePauw University, M.A., 1933, Ohio University	Greencastle, Ind.
William Francis Finn, A.B., 1936, Holy Cross College	Weehawken, N. J.
Howard Edgar Finney, B.S., 1936, Fordham University	New York, N. Y.
Herman Israel Frank, A.B., 1936, Cornell University	Bayonne, N. J.
Helena Gilder, A.B., 1935, Vassar College	Syosset, N. Y.
Marie Elizabeth Grant, A.B., 1936, Barnard College	Summit, N. J.
Robert Purvis Grant, A.B., 1937, Cornell University	Plandome, N. Y.
John Anthony Grimshaw, A.B., 1936, Cornell University	New Rochelle, N. Y.
William Henry Gullledge, A.B., 1937, Cornell University	Wadesboro, N. C.
Keith Osmond Guthrie, Jr., A.B., 1937, Cornell University	Pleasantville, N. Y.
Samuel Arnold Guttman, A.B., 1934, Cornell University	New York, N. Y.
Suzanne Adele Louise Howe, A.B., 1936, Barnard College	Garden City, N. Y.
Charles Keeling Kirby, B.S., 1936, Trinity College	Springfield, S. D.
William Murray Maurice Kirby, B.S., 1936, Trinity College	Springfield, S. D.
Robert August Kritzler, A.B., 1936, Columbia University	Bayside, N. Y.
Frances Shaw Lansdown, A.B., 1927, H. Sophie Newcomb Memorial College	Jackson Heights, N. Y.

Edmond Peter Larkin, A.B., 1936, Amherst College	Northampton, Mass.
Charles Henry Loomis, A.B., 1936, Oberlin College	Sidney, N. Y.
Kenneth Gordon MacDonald, A.B., 1936, Washington and Lee University	Clifton, N. J.
Lloyd Wayland Macfarlane, A.B., 1936, University of Utah	Cedar City, Utah
William Wayne Manson, A.B., 1937, Cornell University	East Orange, N. J.
John Lynn Messersmith, A.B., 1936, Cornell University	Westfield, N. J.
Arthur Gordon Murphy, A.B., 1937, New York University	Montclair, N. J.
Francis James Murray, B.S., 1936, University of Notre Dame	Elizabeth, N. J.
William More Parke, Jr., B.S., 1936, Colgate University	Brooklyn, N. Y.
Ethel Billie Powell, A.B., 1936, University of Arizona	Casa Grande, Ariz.
Edwin Rudolph Raymaley, Jr., B.S., 1936, Bucknell University	Wilkinsburg, Pa.
Robert Murray Richman, A.B., 1936, Cornell University	Brooklyn, N. Y.
Samuel Aloysius Robb, A.B., 1936, Fordham University	New York, N. Y.
Howard C. Robbins, B.S., 1933, Ursinus College, M.A., 1936, Columbia University	Yonkers, N. Y.
Philip King Roesch, A.B., 1937, Cornell University	Bridgeton, N. J.
James Bryant Rooney, A.B., 1937, Cornell University	Staten Island, N. Y.
Gerald Sinnott Ryan, A.B., 1936, Princeton University	Nyack, N. Y.
Jacques Conrad Saphier, A.B., 1936, Cornell University	Larchmont, N. Y.
Carl Julius Schmidlapp, A.B., 1935, Princeton University	Brooklyn, N. Y.
Cornelius Edward Sedgwick, B.S., 1936, Bucknell University	Cincinnati, Ohio
Helen A. Marie Seibert, A.B., 1936, Syracuse University	Roselle Park, N. J.
Edward Morse Shepard, A.B., 1936, Williams College	Hummelstown, Pa.
Robert Wilton Shreve, A.B., 1936, Cornell University	New York, N. Y.
Stanley Joel Snitow, B.S., 1936, College of the City of New York	Hastings-on-Hudson, N. Y.
Elizabeth Elwood Spaulding, A.B., 1936, Cornell University	New York, N. Y.
Ruth Lippincott Stillman, A.B., 1936, Vassar College	New York, N. Y.
Donald Elwood Stokes, A.B., 1937, Cornell University	New York, N. Y.
Charles Matthews Strateman, A.B., 1936, Columbia University	Maplewood, N. J.
John Anthony Strazza, A.B., 1936, Princeton University	White Plains, N. Y.
Walter Thomas Sullivan, Jr., B.S., 1932, University of Notre Dame	Bloomfield, N. J.
Walter Chaplain Vail, A.B., 1937, Cornell University	Auburn, N. Y.
William Whitney Walker, B.S., 1936, Fordham University	Cortland, N. Y.
William Eric Williams, A.B., 1936, Williams College	New York, N. Y.
John Evans Wilson, B.S., 1936, University of Florida	Rutherford, N. J.
George Anthony Wolf, Jr., B.S., 1936, New York University	Gainesville, Fla.
	Montclair, N. J.

FIRST YEAR

Clifford Arthur Bachrach, A.B., 1937, Cornell University	Brooklyn, N. Y.
Margaret Bashford, A.B., 1937, Vassar College	Yonkers, N. Y.
Louis Vincent Belott, B.S., 1936, St. Peter's College	West Orange, N. J.
Hobart Meredith Berry, Cornell University*	Lynbrook, N. Y.
Robert Thomson Breed, A.B., 1937, Amherst College	Lynn, Mass.
Benjamin Wells Bullen, Jr., A.B., 1936, Brown University	White Plains, N. Y.
Joseph Romeyn Calder, B.S., 1931, St. Lawrence University	Maplewood, N. J.
John Adamson Cheek, A.B., 1937, Centre College	Danville, Ky.
Maynard Burton Chenoweth, Columbia College*	Weehawken, N. J.
Edward Wyker Closson, Jr., B.S., 1937, Cornell University	Lambertville, N. J.
Elizabeth Nelson Conover, A.B., 1937, Wellsley College	Greenwich, Conn.
Francis Leroy Cooper, Jr., A.B., 1937, Bowdoin College	Brockton, Mass.
Phoebe Leavitt Cox, A.B., 1937, Mount Holyoke College	Holyoke, Mass.
Stanford Dann Cramer, A.B., 1937, Colgate University	Rockville Center, N. Y.
Helen Elizabeth Daniells, A.B., 1937, Barnard College	New Rochelle, N. Y.
Charles Edward Dougherty, B.S., 1937, Fordham University	Harrison, N. Y.
William Joseph Eisenmenger, B.S., 1937, Fordham University	New York, N. Y.
Edward Alden Ellison, A.B., 1936, Colgate University	Albany, N. Y.
Lawrence Gahagan, B.S., 1925, M.A., 1927, Ph.D., 1929, Princeton University	New York, N. Y.
William Anthony Geohegan, E.E., 1929, Cornell University	Ithaca, N. Y.
Kenneth Montgomery Gillroy, B.S., 1937, Fordham University	Stamford, Conn.

*Admitted under Clause II.

- Henry Harris Graham, B.S., 1937, University of Florida
 Gerard Aloysius Haggerty, A.B., 1937, St. Peter's College
 Richard Blake Hanchett, B.S., 1937, The American International College
 Springfield, Mass.
 Fort McPherson, Ga.
 Gallipolis, Ohio
 Haverford, Pa.
 New York, N. Y.
 Atlanta, Ga.
 Los Angeles, Cal.
 Amherst, Mass.
 Brooklyn, N. Y.
 Brooklyn, N. Y.
 Brooklyn, N. Y.
 Bridgeport, Conn.
 Arlington, N. J.
 Winchester, Mass.
 Swarthmore, Pa.
 New Rochelle, N. Y.
 Dunkirk, N. Y.
 New York, N. Y.
 Brooklyn, N. Y.
 New York, N. Y.
 Garden City, N. Y.
 Upper Montclair, N. J.
 Scarsdale, N. Y.
 New York, N. Y.
 East Hampton, N. Y.
 Maplewood, N. J.
 Brooklyn, N. Y.
 Brooklyn, N. Y.
 Kansas City, Mo.
 Atlantic Highlands, N. J.
 Taunton, Mass.
 Garden City, N. Y.
 Rochester, N. Y.
 Auburn, N. Y.

FIRST YEAR STUDENTS AT ITHACA, 1937-38

- Joffre Victor Achin, B.S., 1937, Tufts College
 Morley Leonard Bernstein, Cornell University*
 Thomas John Bridges, A.B., 1937, University of Rochester
 Wilbur Buholtz, A.B., 1937, University of Rochester
 Seymour Menzo Bulkley, B.S., 1937, Cornell University
 Arthur Dale Console, B.S., 1937, Cornell University
 Wilbur Mayfield Dixon, A.B., 1937, Cornell University
 Hayden Oliver Evans, Cornell University*
 Roy Keene Goddard, A.B., 1937, Centre College
 Oscar Emanuel Goldstein, A.B., 1937, Cornell University
 Richard Graves Hardenbrook, A.B., 1937, University of Michigan
 Park Dudley Keller, B.S., 1934, Utah State Agricultural College
 Sarah Leigh, A.B., 1937, Vassar College
 Joseph Abraham Leonard, A.B., 1937, Cornell University
 Robert Osborn Loomis, Cornell University*
 John Francis Swett Reed, B.S., 1937, Bowdoin College
 Theodore Doremus Slocum, A.B., 1934, Cornell University
 Mildred Harvell Thompson, B.A., 1937, University of Mississippi
 Winthrop Sherwood Welch, A.B., 1937, Cornell University
 Emanuel Wolinsky, Cornell University*
 Lowell, Mass.
 Niagara Falls, New York
 Fairport, New York
 Churchville, New York
 Odessa, N. Y.
 Brooklyn, N. Y.
 Binghamton, N. Y.
 Tamaqua, Pa.
 Skiatook, Okla.
 Passaic, N. J.
 Rochester, N. Y.
 Mink Creek, Idaho
 Little Rock, Arkansas
 Brooklyn, N. Y.
 Rochester, N. Y.
 Rockport, Mass.
 Scottsville, N. Y.
 Mountain Lakes, N. J.
 Ithaca, N. Y.
 New York, N. Y.

*Admitted under Clause II.

SUMMARY

Fourth Year	68
Third Year	63
Second Year	72
First Year (New York)	57
First Year (Ithaca)	20
Total	280

STUDENTS IN THE GRADUATE SCHOOL

Doctors of Philosophy, 1937

- Olive D. Hoffman, B.S., 1928, Westminster College, M.A., 1929, Oberlin College
Cochran, Pa.
Rose Grundfest Miller, A.B., 1929, Barnard College, A.M., 1931, Radcliffe College
New York City
William H. Summerson, B.Chem., 1927, M.A., 1928, Cornell University
Jackson Heights, N. Y.

Master of Arts, 1937

- John Francis Cadden, B.S., 1931, Johns Hopkins University Jackson Heights, N. Y.

Candidates for the degree of Doctor of Philosophy

- Alice Gooding Elftman, A.B., 1926, Teachers College, 1929, M.A., Cornell University
Leonia, N. J.
Virginia Trevorow, A.B., 1931, Denver University, M.S., 1933, Colorado University
Denver, Colorado
Paul Edgar Tullar, A.B., 1925, Albion College White Plains, N. Y.

Candidate for the degree of Master of Arts

- Sylvia Schutz, A.B., 1936, Hunter College New York City

Candidate for the degree of Master of Science

- Henderika Rynbergen, B.S., 1922, Simmons College Laurelton, L. I.

SPECIAL STUDENTS

1936-37

- Lt. Com. Charles F. Behrens, M.D., 1920, University of Pennsylvania
U. S. Naval Hospital, Newport, R. I.
Maryland Burns Byrne, M.D., 1917, Women's Medical College, M.A., Columbia
University, 1931 New York City
Joy Gilder, B.S., 1936, Columbia University New York City
John G. McGrath, M.D., 1926, Cornell University New York City